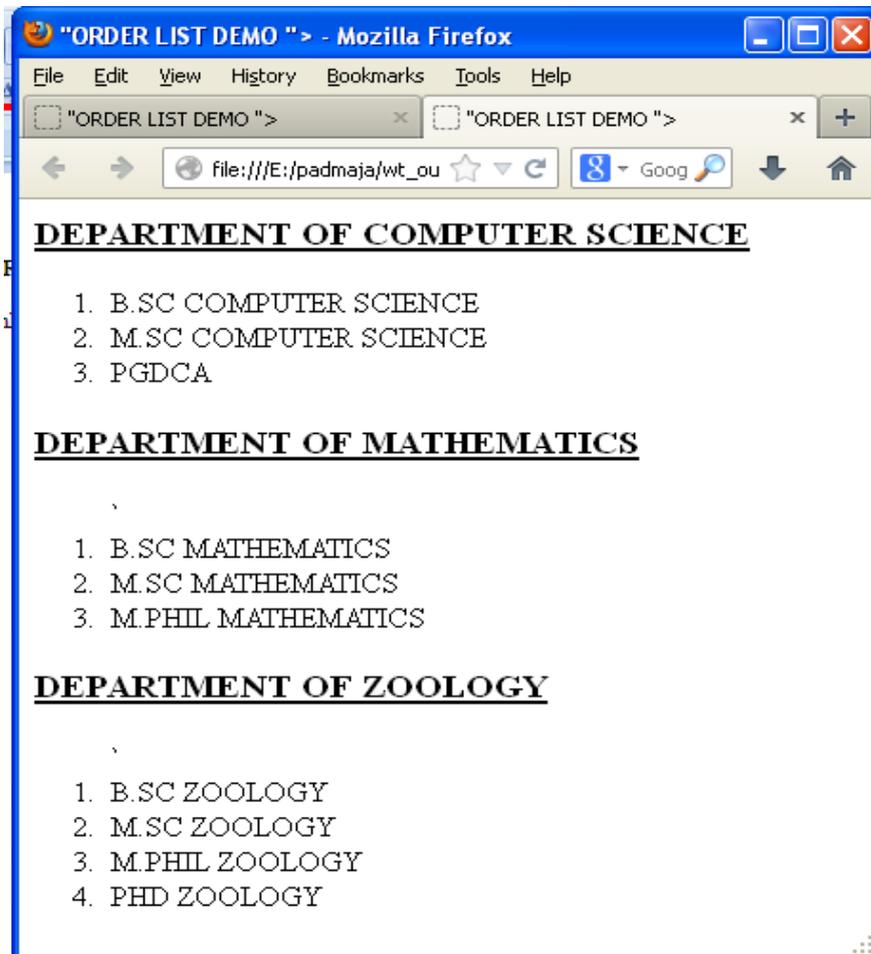


**HTML Code**

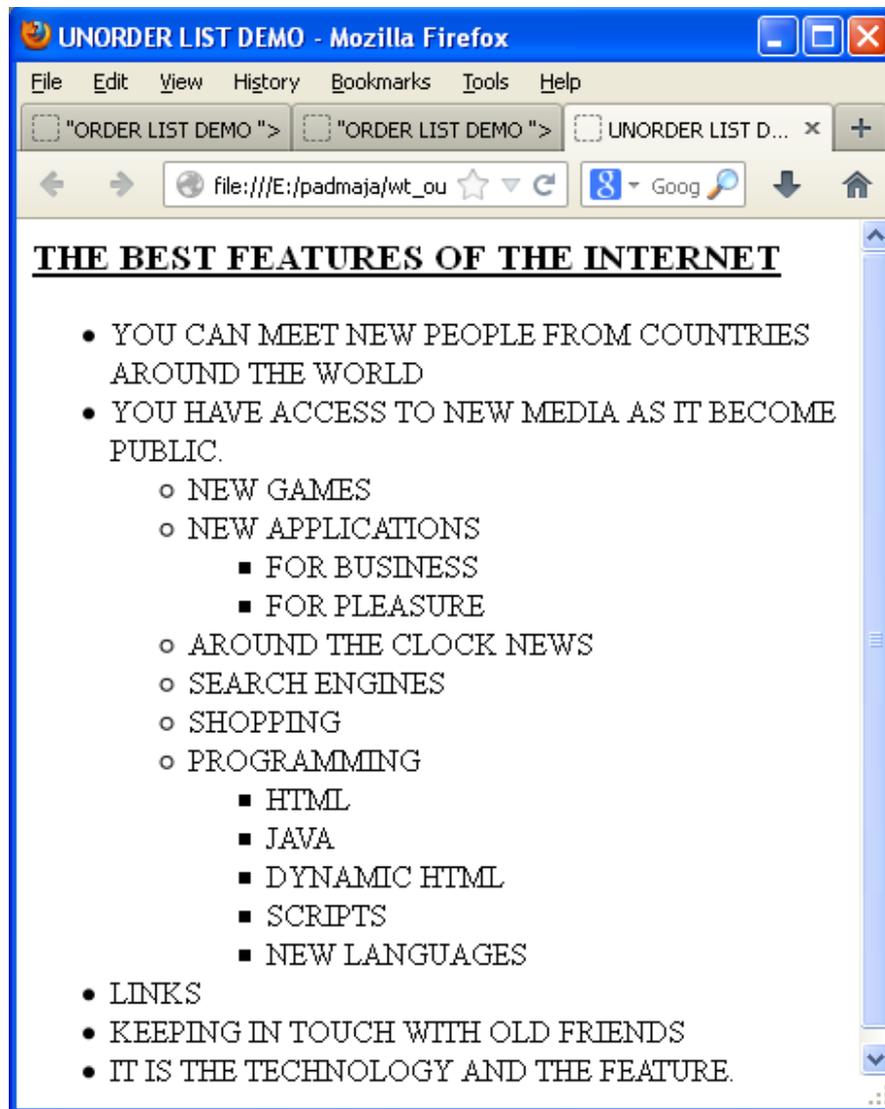
```
<HTML>
<HEAD>
  <TITLE>"ORDER LIST DEMO "</TITLE>
</HEAD>
<BODY>
  <H1>
    <U>DEPARTMENT OF COMPUTER SCIENCE</U>
  </H1>
  <OL TYPE="1">
    <LI>B.SC COMPUTER SCIENCE</LI>
    <LI>M.SC COMPUTER SCIENCE</LI>
    <LI>PGDCA</LI>
  </OL>
  <H1>
    <U>DEPARTMENT OF MATHEMATICS</U>
  </H1>
  <OL TYPE="4">
    <LI>B.SC
      MATHEMATICS</LI>
    <LI>M.SC MATHEMATICS</LI>
    <LI>M.PHIL MATHEMATICS</LI>
  </OL>
  <H1>
    <U>DEPARTMENT OF ZOOLOGY</U>
  </H1>
  <OL TYPE="7">
    <LI>B.SC
      ZOOLOGY</LI>
    <LI>M.SC ZOOLOGY</LI>
    <LI>M.PHIL ZOOLOGY</LI>
    <LI>PHD ZOOLOGY</LI>
  </OL>
</BODY>
</HTML>
```

**OUTPUT:**

**HTML Code**

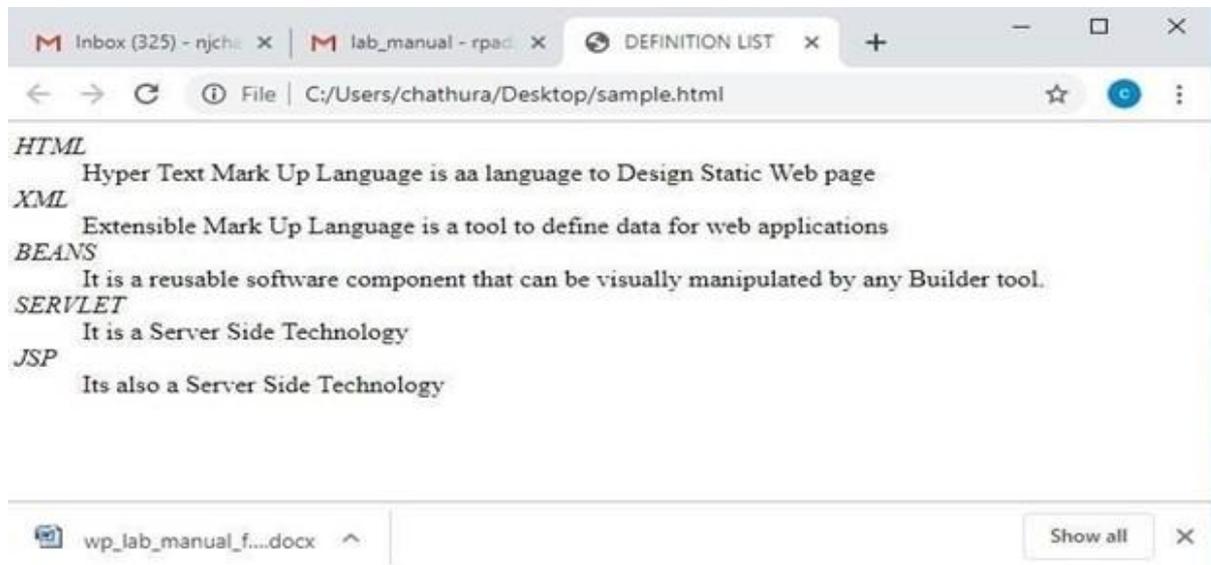
```
<HTML>
  <BODY>
    <H3><U>THE BEST FEATURE OF THE INTERNET</U></H3>
    <UL TYPE="DISC">
      <LI>YOU CAN MEET NEW PEOPLE FROM
        COUNTRIES AROUND THE
        WORLD.</LI>
      <LI>YOU HAVE ACCESS TO NEW MEDIA AS
        IT BECOME PUBLIC.</LI>
      <UL TYPE="CIRCLE">
        <LI>NEW GAMES</LI>
        <LI>NEW APPLICATIONS</LI>
        <UL TYPE="SQUARE">
          <LI>FOR BUSINESS</LI>
          <LI>FOR PLEASURE</LI>
        </UL>
        <LI>AROUND THE CLOCK NEWS</LI>
        <LI>SEARCH ENGINES</LI>
        <LI>SHOPPING</LI>
        <LI>PROGRAMMING</LI>
      <UL TYPE="SQUARE">
        <LI>HTML</LI>
        <LI>JAVA</LI>
        <LI>DYNAMIC HTML</LI>
        <LI>SCRIPTS</LI>
        <LI>NEW LANGUAGES</LI>
      </UL>
    </UL>
    <LI>LINKS</LI>
    <LI>KEEPING IN TOUCH WITH OLD FRIENDS</LI> <LI>IT IS THE
    TECHNOLOGY AND THE FEATURE.</LI>
  </UL>
</BODY> </HTML>
```

## OUTPUT:



**HTML Code**

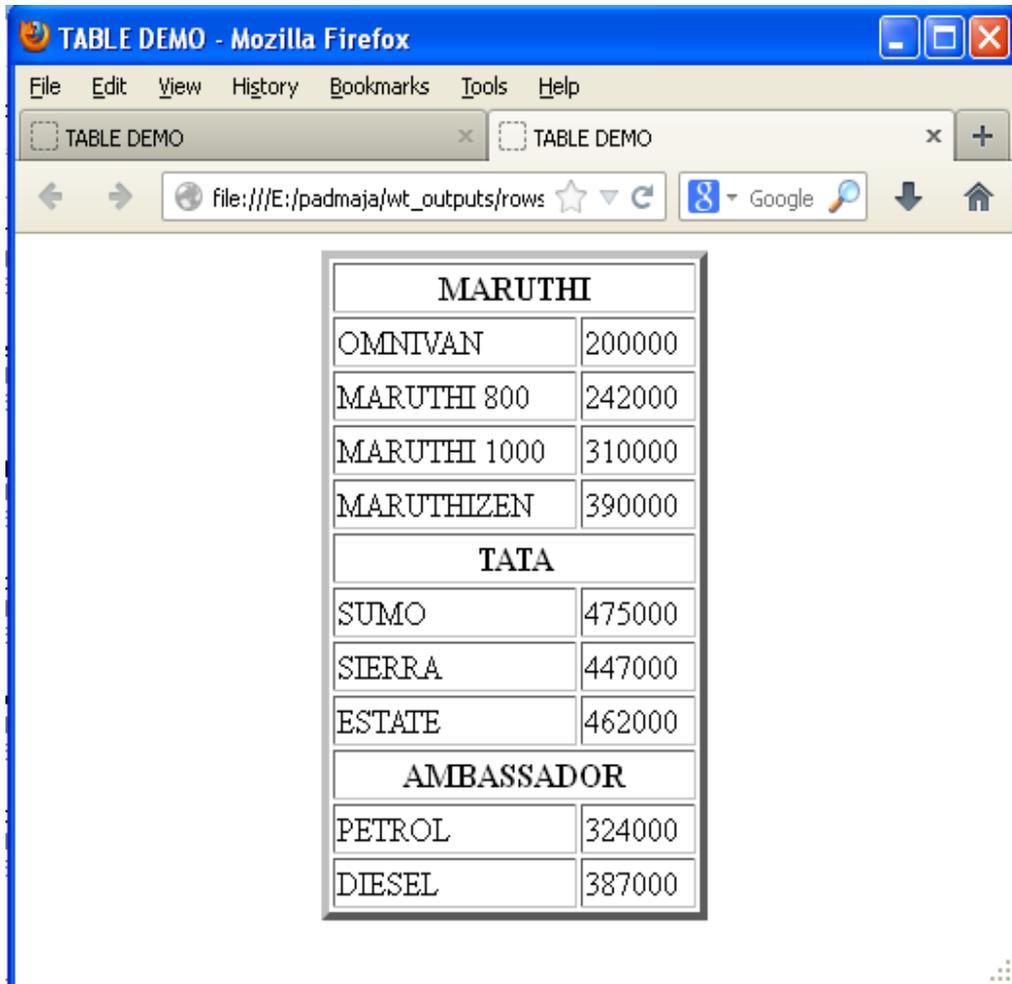
```
<HTML>
<HEAD>
  <TITLE>DEFINITION LIST</TITLE>
</HEAD>
  <BODY BGCOLOR="VIOLET" TEXT="MAROON">
    <DL>
      <DT><I>HTML</I></DT>
      <DD>Hyper Text Mark
        Up Language is aa
        language to Design
        Static Web page</DD>
      <DT><I>XML</I></DT>
      <DD>Extensible Mark Up Language is a tool
        to define data for web applications </DD>
      <DT><I>BEANS</I></DT>
      <DD>It is a reusable software component that
        can be visually manipulated by any Builder
        tool.</DD>
      <DT><I>SERVLET</I></DT>
      <DD> It is a Server Side Technology</DD>
      <DT><I>JSP</I></DT>
      <DD>Its also a Server Side Technology</DD>
    </DL>
  </BODY>
</HTML>
```

**OUTPUT:**

## HTML Code

```
<HTML>
<BODY>
  <TABLE BORDER=4 WIDTH="40%">
    <TR>
      <THCOLSPAN=4>MARUTHI</TH>
    </TR>
    <TR>
      <TD>OMNIVAN</TD>
      <TD>200000</TD>
    </TR>
    <TR>
      <TD>MARUTHI 800</TD>
      <TD>242000</TD>
    </TR>
    <TR>
      <TD>MARUTHI 1000</TD>
      <TD>310000</TD>
    </TR>
    <TR>
      <TD>MARUTHIZEN</TD>
      <TD>390000</TD>
    </TR>
    <TR>
      <THCOLSPAN=2>TATA</TH>
    </TR>
    <TR>
      <TD>SUMO</TD>
      <TD>475000</TD>
    </TR>
    <TR>
      <TD>SIERRA</TD>
      <TD>447000</TD>
    </TR>
    <TR>
      <TD>ESTATE</TD>
      <TD>462000</TD>
    </TR>
    <TR>
      <THCOLSPAN=2>AMBASSADOR</TH>
    </TR>
    <TR>
      <TD>PETROL</TD>
      <TD>324000</TD>
    </TR>
    <TR>
      <TD>DIESEL</TD>
      <TD>387000</TD>
    </TR>
  </TABLE>
</BODY> </HTML>
```

## OUTPUT:



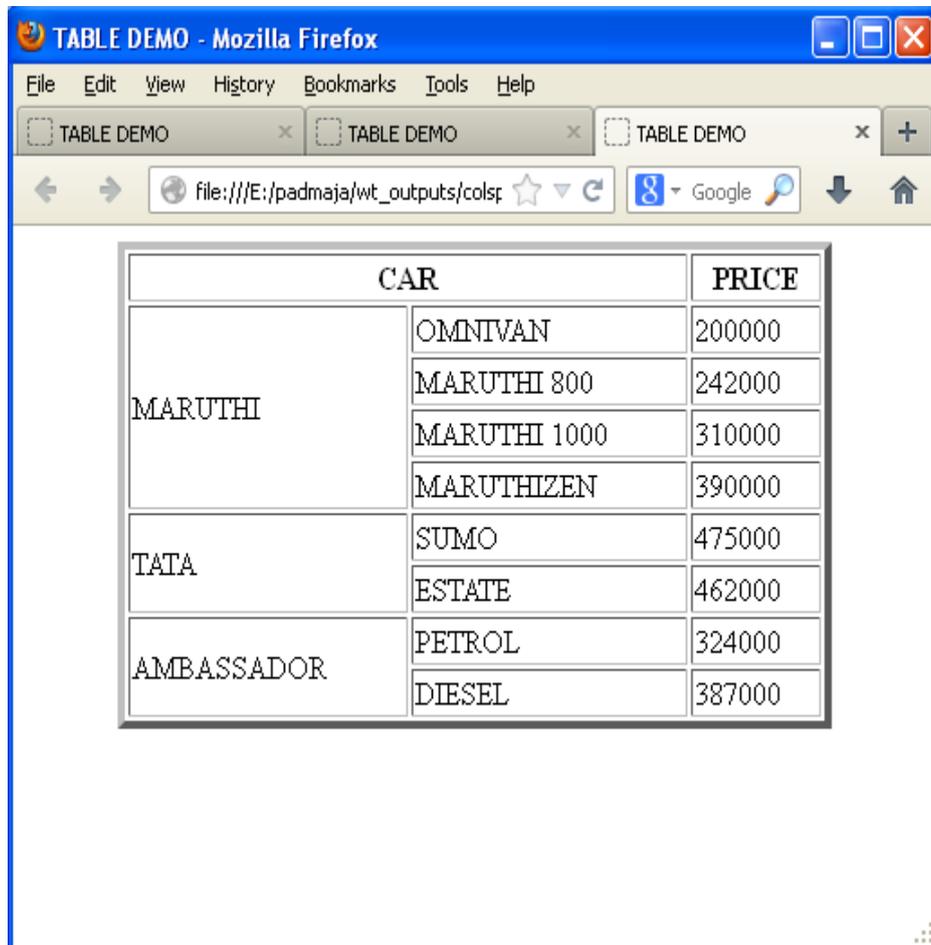
The screenshot shows a Mozilla Firefox browser window titled "TABLE DEMO - Mozilla Firefox". The address bar displays the file path "file:///E:/padmaja/wt\_outputs/rows". The main content area contains a table with the following data:

MARUTHI	
OMNIVAN	200000
MARUTHI 800	242000
MARUTHI 1000	310000
MARUTHIZEN	390000
TATA	
SUMO	475000
SIERRA	447000
ESTATE	462000
AMBASSADOR	
PETROL	324000
DIESEL	387000

## HTML Code

```
<HTML>
  <BODY>
    <TABLE BORDER=4
      ALIGN="CENTER"
      WIDTH="60%">
      <TRCOLSPAN=2>
        <THCOLSPAN=2>CAR</TH>
        <TH>PRICE</TH>
      </TR>
      <TR>
        <TD ROWSPAN=4>MARUTHI</TD>
        <TD>OMNIVAN</TD>
        <TD>200000</TD>
      </TR>
      <TR>
        <TD>MARUTHI 800</TD>
        <TD>242000</TD>
      </TR>
      <TR>
        <TD>MARUTHI 1000</TD>
        <TD>310000</TD>
      </TR>
      <TR>
        <TD>MARUTHIZEN</TD>
        <TD>390000</TD>
      </TR>
      <TR>
        <TD ROWSPAN=2>TATA</TD>
        <TD>SUMO</TD>
        <TD>475000</TD>
      </TR>
      <TR>
        <TD>ESTATE</TD>
        <TD>462000</TD>
      </TR>
      <TR>
        <TD
          ROWSPAN=2>AMBA
          SSADOR</TD>
        <TD>PETROL</TD>
        <TD>324000</TD>
      </TR>
      <TR>
        <TD>DIESEL</TD>
        <TD>387000</TD>
      </TR>
    </TABLE>
  </BODY> </HTML>
```

## OUTPUT:



The screenshot shows a Mozilla Firefox browser window titled "TABLE DEMO - Mozilla Firefox". The address bar displays the file path: file:///E:/padmaja/wt\_outputs/colsp. The browser content area displays a table with the following data:

CAR		PRICE
MARUTHI	OMNIVAN	200000
	MARUTHI 800	242000
	MARUTHI 1000	310000
	MARUTHIZEN	390000
TATA	SUMO	475000
	ESTATE	462000
AMBASSADOR	PETROL	324000
	DIESEL	387000

HTML Code

```

<HTML>

  <HEAD>
    <TITLE>TIME TABLE</TITLE>
  </HEAD>
  <BODY>
    <TABLE BORDER="5" WIDTH="75%"
      ALIGN="CENTER">
      <TR>
        <TH>DAY/TIME</TH>
        <TH>1</TH><BR>9.00-9.50</TH>
        <TH>2</TH><BR>9.50-10.40</TH>
        <TH ROWSPAN="7">T</TH><BR>E
          <BR>A</BR>B</BR>R</BR>E
          <BR>A</BR>K</BR></TH>
        <TH>3</TH><BR>10.55-11.45</TH>
        <TH>4</TH><BR>11.45-12.30</TH>
        <TH ROWSPAN="7">L</TH><BR>U
          <BR>N</BR>C</BR>H</BR>B
          <BR>R</BR>E</BR>A</BR>K</BR></TH>
        <TH>5</TH><BR>1.30-2.20</TH>
        <TH>6</TH><BR>2.20-3.10</TH>
        <TH>7</TH><BR>
          3.10-4.00</TH>
      </TR>
      <TR>
        <TH>MON</TH>
        <TD>.NET</TD>
        <TD>MIS</TD>
        <TD>DS</TD>
        <TD>DWM</TD>
        <TD>MIS</TD>
        <TD>LIBRARY</TD>
        <TD>WT</TD>
      </TR>
      <TR>
        <TH>TUE</TH>
        <TD>MIS</TD>
        <TD>--></TD>
        <TD COLSPAN = 2
          ALIGN =
            "CENTER"> WT
            LAB</TD>
        <TD>.NET</TD>
        <TD>WT</TD>
        <TD>DWM</TD>
      </TR>
    </TR>
  </BODY>
</HTML>

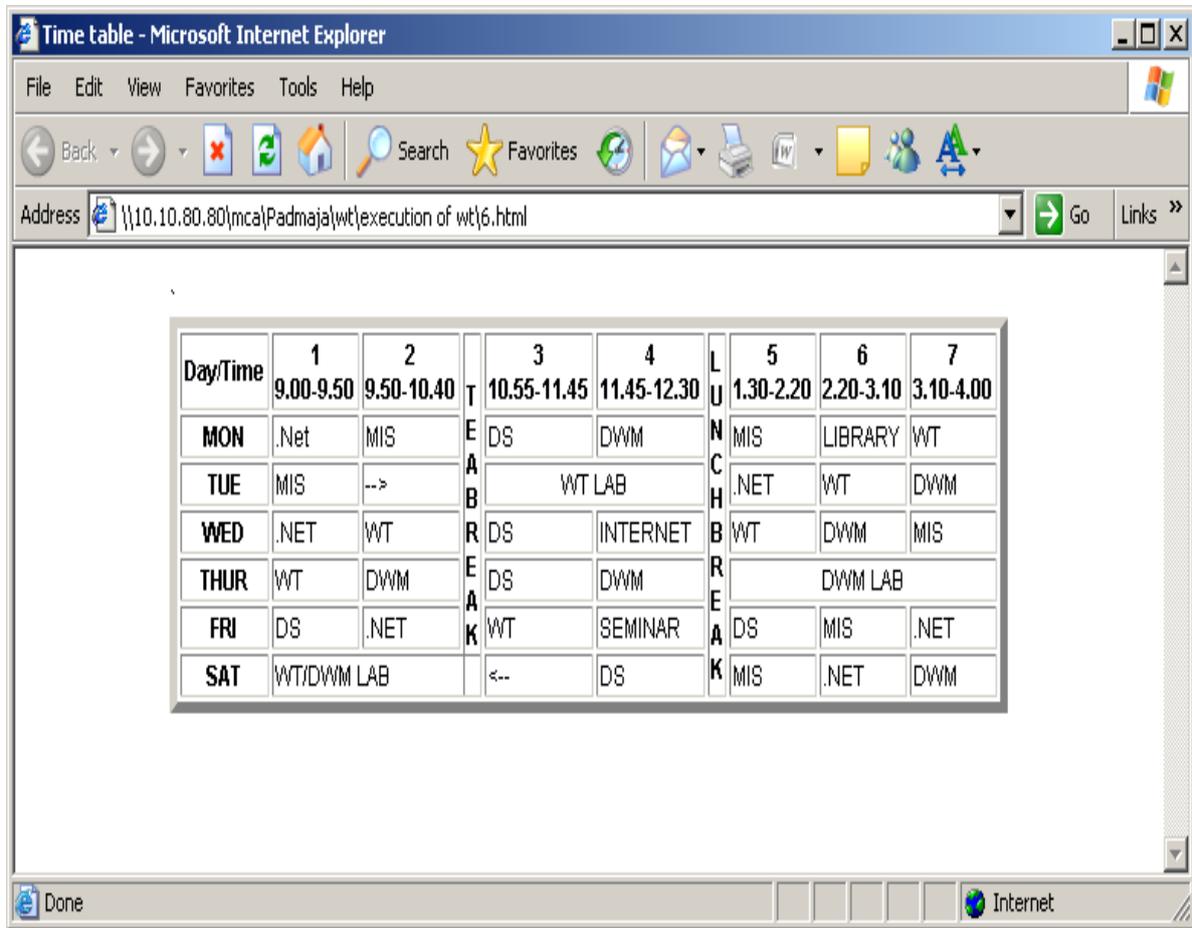
```

```
<TH>WED</TH>
<TD>.NET</TD>

<TD>DS</TD>
<TD>INTERNET</TD>
<TD>WT</TD>
<TD>DWM</TD>
<TD>MIS</TD>
</TR>
<TR>
<TH>THUR</TH>
<TD>WT</TD>
<TD>DWM</TD>
<TD>DS</TD>
<TD>DWM</TD>
<TD COLSPAN="3" ALIGN = "CENTER">
DWM LAB</TD>
</TR>
<TR>
<TH>FRI</TH>
<TD>DS</TD>
<TD>.NET</TD>
<TD>WT</TD>
<TD>SEMINAR</TD>
<TD>DS</TD>
<TD>MIS</TD>
<TD>.NET</TD>
</TR>
<TR>
<TH>SAT</TH>
<TD COLSPAN="3">WT/DWM LAB</TD>
<TD>--</TD>
<TD>DS</TD>
<TD>MIS</TD>
<TD>.NET</TD>
<TD>DWM</TD>
</TR>
</TABLE>
</BODY>

</HTML>
```

OUTPUT:



**FRAMESET AND FRAME TAG ILLUSTRATION:****FramesetDemo.html**

```
<html>
  <head>
    <title>Frames demo</title>
  </head>
  <frameset rows = "50%, 50%">
    <frameset cols = "50%,50%">
      <frame name = "html" src = "html.html"/>
      <frame name = "xml" src = "xml.html"/>
    </frameset>
    <frameset cols = "40%,30%,30%">
      <frame name = "bean" src = "bean.html"/>
      <frame name = "jsp" src = "jsp.html"/>
      <frame name = "servlet" src = "servlet.html"/>
    </frameset>
  </frameset>
</html>
```

**html.html**

```
<html>
  <head>
    <title>FrameDemo</title>
  </head>
  <body>
    <h3>HTML is a <b>Markup</b> language for describing web documents</h3>
    <ul type = "disc">
      <li> HTML stands for Hyper Text Markup Language</li>
      <li> A Markup Language is a set of Markup tags</li>
      <li> HTML is a universal documentation Language</li>
      <li> HTML is a commonly used language for designing static web
        page</li>
    </ul>
  </body>
</html>
```

**xml.html**

```
<html>
  <head>
    <title>FrameDemo</title>
  </head>
  <body>
    <h3><b>What is XML ?</b></h3>
    <ul type = "square">
      <li> XML stands for Extensible Markup Language</li>
      <li> XML was designed to describe data, not to display data</li>
      <li> XML tags are not predefined </li>
      <li> DTD and XSD are the languages to define XML document schema</li>
    </ul>
  </body>
</html>
```

**bean.html**

```
<html>
  <head>
    <title>FrameDemo</title>
  </head>
  <body>
    <h2><b>What is Java Bean ?</b></h2>
    <p>Java Bean is a reusable software component
      which can be visually manipulated by any buider tools.
    </p>
  </body>
</html>
```

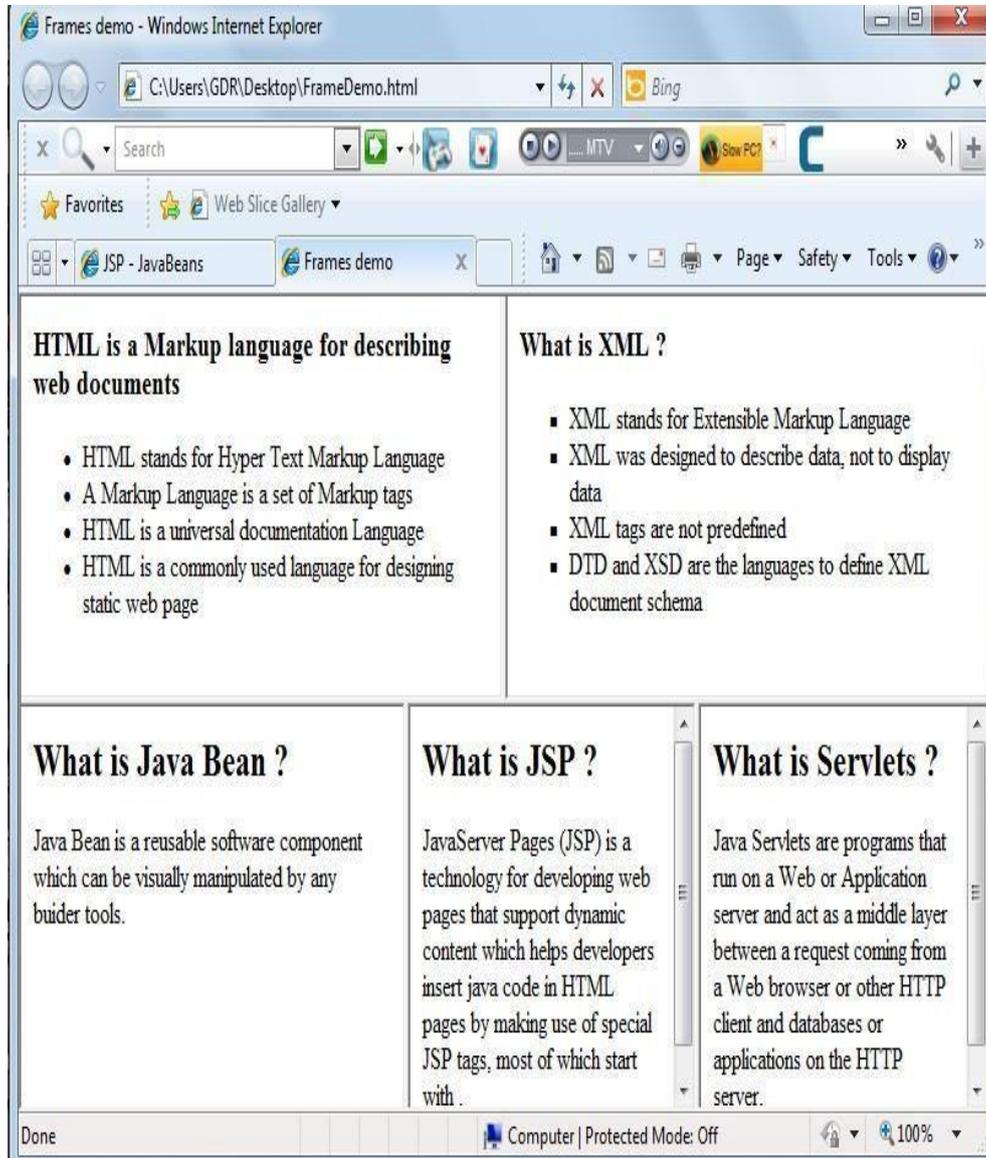
**Servlet.html**

```
<html>
  <head>
    <title>FrameDemo</title>
  </head>
  <body>
    <h2><b>What is Servlets ?</b></h2>
    <p>Java Servlets are programs that run on a Web or Application
      server and act as a middle layer between a request coming
      from a Web browser or other HTTP client and databases or
      applications on the HTTP server.
    </p>
  </body>
</html>
```

**jsp.html**

```
<html>
  <head>
    <title>FrameDemo</title>
  </head>
  <body>
    <h2><b>What is JSP ?</b></h2>
    <p>JavaServer Pages (JSP) is a technology for
      developing web pages that support
      dynamic content which helps
      developers insert java code in HTML
      pages by making use of special JSP
      tags, most of which start with <% and
      end with %>.
    </p>
  </body>
</html>
```

## OUTPUT:



**BIODATA FORM USING FORM TAG:**

```
<HTML>
  <HEAD>
    <TITLE>BIODATA</TITLE>
  </HEAD>
  <BODY>
    <FORM NAME="BIODATA" METHOD="POST">
      <H2 ALIGN=CENTER>BIODATA</H2>
      <TABLE ALIGN=CENTER WIDTH="30%">
        <TR>
          <TH>NAME</TH>
          <TD COLSPAN="5"><INPUT TYPE="TEXT" SIZE=70>
        </TR>
        <TR>
          <TH>D.O.B</TH>
          <TD COLSPAN="5"><INPUT TYPE="TEXT" SIZE=70>
        </TR>
        <TR>
          <TH>RELIGION</TH>
          <TD COLSPAN="5"><INPUT TYPE="TEXT" SIZE=70>
        </TR>
        <TR>
          <TH ROWSPAN="5">ADDRESS</TH>
        </TR>
        <TR>
          <TD>STREET</TD>
          <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50>
        </TR>
        <TR>
          <TD>TOWN</TD>
          <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50>
        </TR>
        <TR>
          <TD>DIST</TD>
          <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50>
        </TR>
        <TR>
          <TD>STATE</TD>
          <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50>
        </TR>
        <TR>
          <TH ROWSPAN="2">PHONE</TH>
          <TD>OFFICE</TD>
          <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50>
        </TR>
        <TR>
          <TD>RESIDANCE</TD>
```

```
<TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50>
</TR>

<TR>
  <TH COLSPAN="6">EDUCATIONAL QUALIFICATION</TH>

</TR>
<TR>
  <TH>DEGREE</TH>
  <TH>UNIVERSITY</TH>
  <TH>MONTH&YEAR</TH>
  <TH>GRADE/MARKS</TH>
</TR>
<TR>
  <TH>1</TH>
  <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=70>
</TR>
<TR>
  <TH>2</TH>
  <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=70>
</TR>
<TR>
  <TH>3</TH>
  <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=70>
</TR>
<TR>
  <TH>4</TH>
  <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=70>
</TR>
<TR>
  <TH>5</TH>
  <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=70>
  </TR>
</TABLE>
</FORM>
</BODY>
</HTML>
```

OUTPUT:

The screenshot shows a Microsoft Internet Explorer browser window displaying a web form titled "biodata". The browser's address bar shows the file path: C:\Documents and Settings\sitams.INTERNET12.000\Desktop\biodata.html. The form contains the following sections:

- NAME**: A single text input field.
- DOB**: A single text input field.
- RELIGION**: A single text input field.
- ADDRESS**: A group of five text input fields labeled "street", "town", "dist", "state", and "office".
- PHONE**: A group of two text input fields labeled "office" and "residance".
- EDUCATIONAL QUALIFICATION**: A table with five rows and four columns: "degree", "university", "month&year", and "grade/marks".

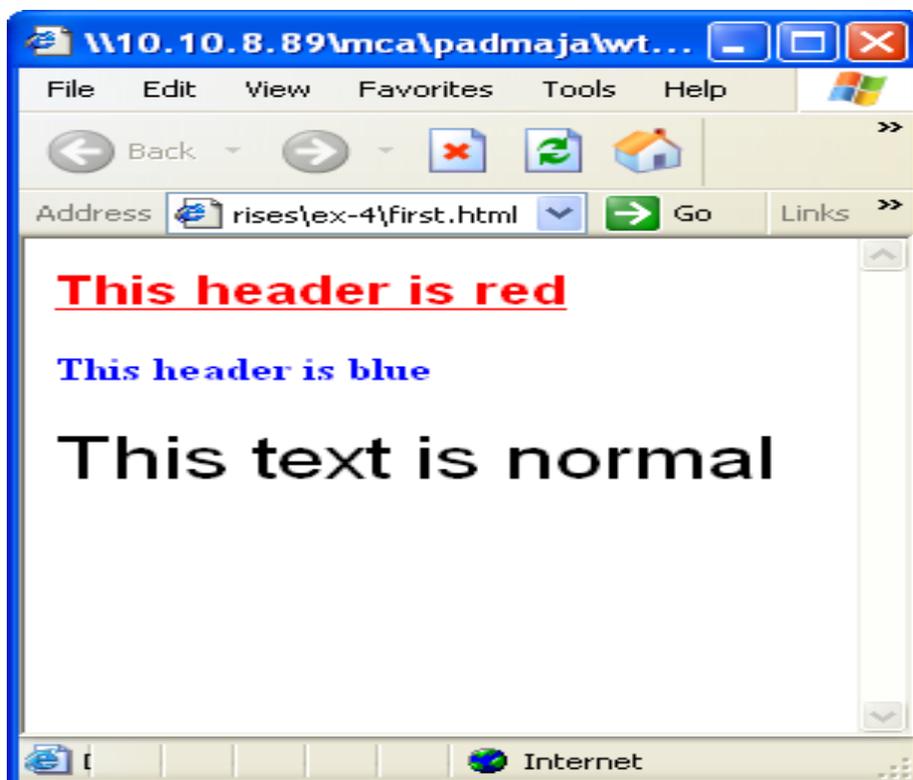
degree	university	month&year	grade/marks
1			
2			
3			
4			
5			

**CASCADING STYLE SHEET ILLUSTRATIONS:****Task 9.1****<!--USE OF DIFFERENT FONT,STYLES AND COLORS-->**

```
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="test1.css"/>
  </head>
  <body>
    <h1>This header is red</h1>
    <h2>This header is blue</h2>
    <p>This text is normal</p>
  </body>
</html>
```

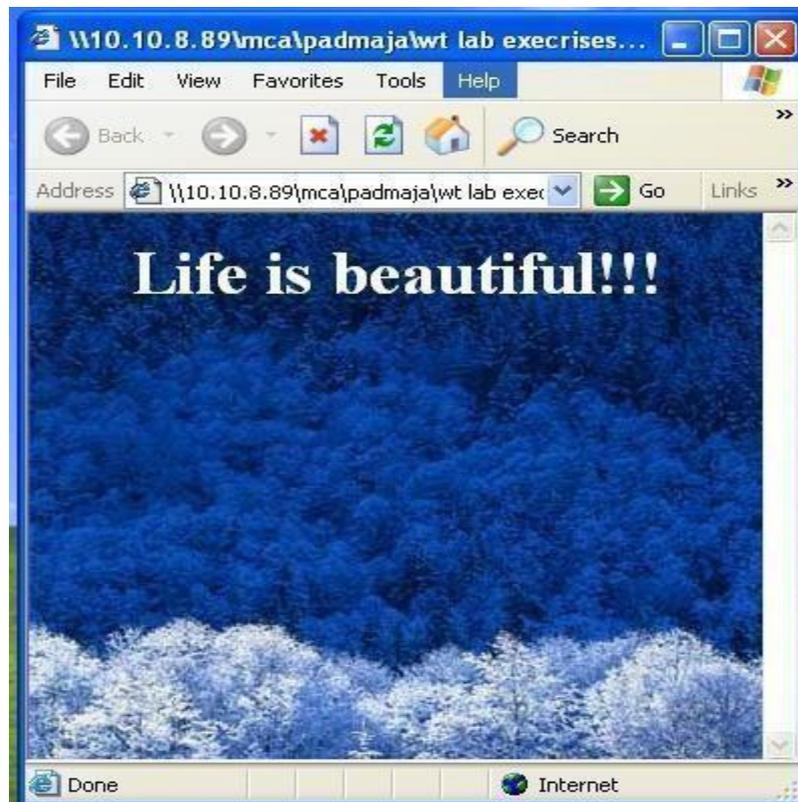
**Test.css**

```
h1 { color:red;font-size:22px;font-family:arial;text-
decoration:underline} h2 { color:blue;font-size:16px }
p { font-family:arial;font-size:30px }
```

**OUTPUT:**

**Task 9.2****<!--SETTING BACKGROUND IMAGE .-->**

```
<html>
  <head>
    <style
      type="text/css">
      body
      {
        background-
          image:url("winter.jpg"); background-
          repeat:no-repeat
      }
    </style>
  </head>
  <body>
    <center><h1>Life is beautiful!!!</h1></center>
  </body>
</html>
```

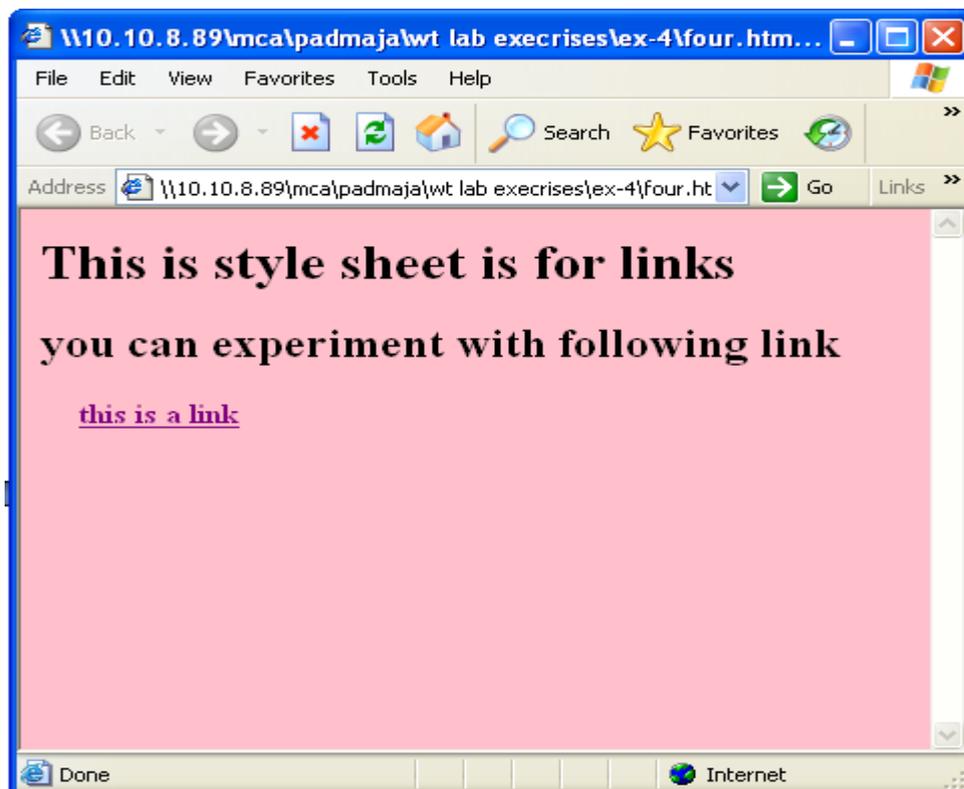
**OUTPUT:**

**Task 9.3****<!--DEFINING STYLES FOR LINKS.-->**

```
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="test4.css"/>
  </head>
  <body>
    <h1>This is style sheet is for links</h1>
    <h2>you can experiment with following link</p>
    <p><a href="http://www.google.co.in">this is a link</a></p>
  </body>
</html>
```

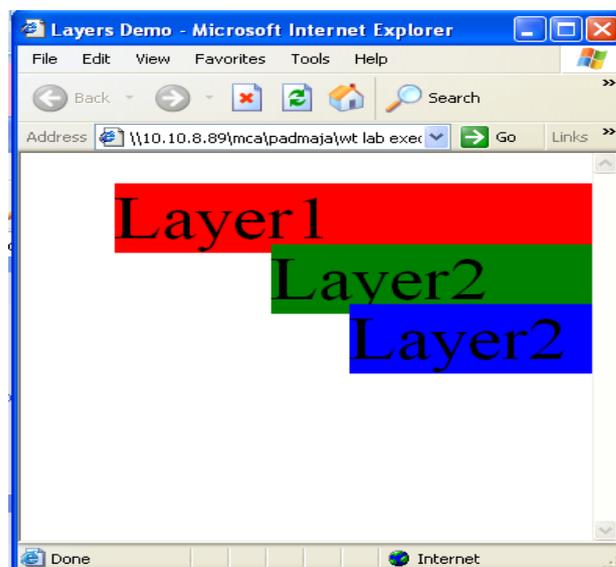
**test4.css**

```
body{backgr
ound-
color:pink}
h1{color:blac
k;font-
size:22px}
p{font-
size:12}
a:link{color:b
lue}
a:visited{colo
r:purple}
a:hover{color:red;text-decoration:underline}
a.active{color:green}
```

**OUTPUT:**

**Task 9.4****<!-- WORKING WITH LAYERS ..>**

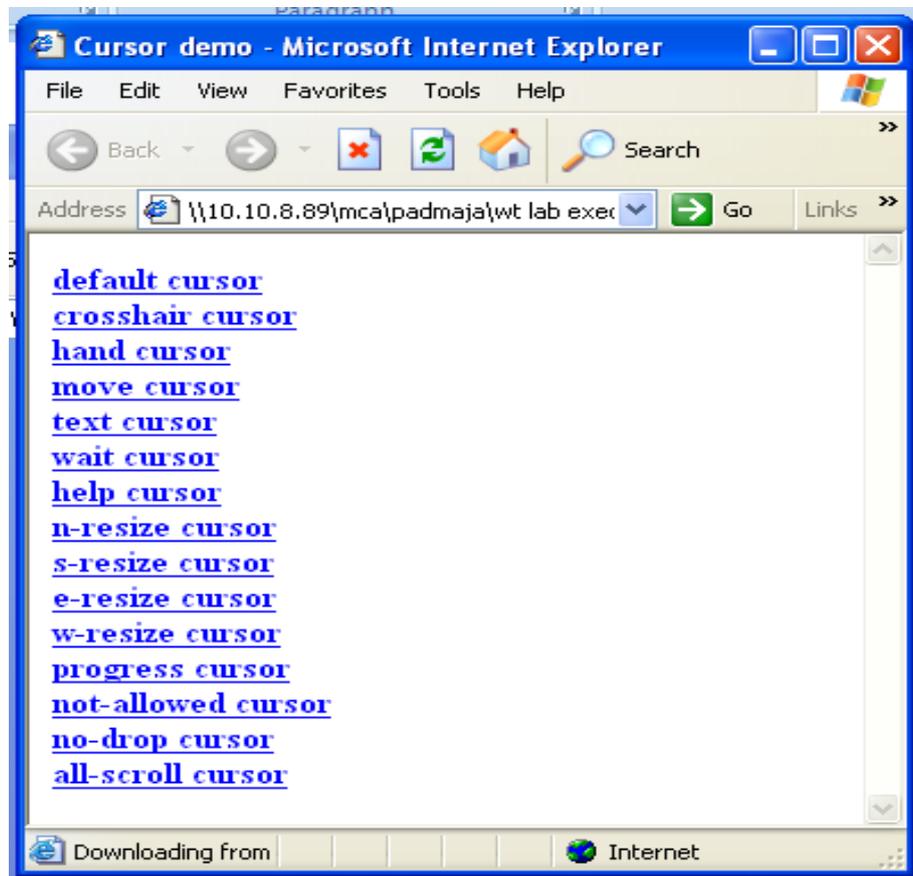
```
<html>
<head>
<title>Layers Demo</title>
</head>
<body>
<div style="position:relative;
font-size:50px;
left:50;
top:10;
Background-color:red;
z-index:1;">Layer1</div>
<div style="position:relative;
font-size:50px;
left:150;
top:3;
Background-color:green;
z-index:2;">Layer2</div>
<div style="position:relative;
font-size:50px;
left:200;
top:-5;
Background-color:blue;
z-index:3;">Layer2</div>
</body>
</html>
```

**OUTPUT:**

**Task 9.5****<!-- CUSTOMIZED CURSOR ..>**

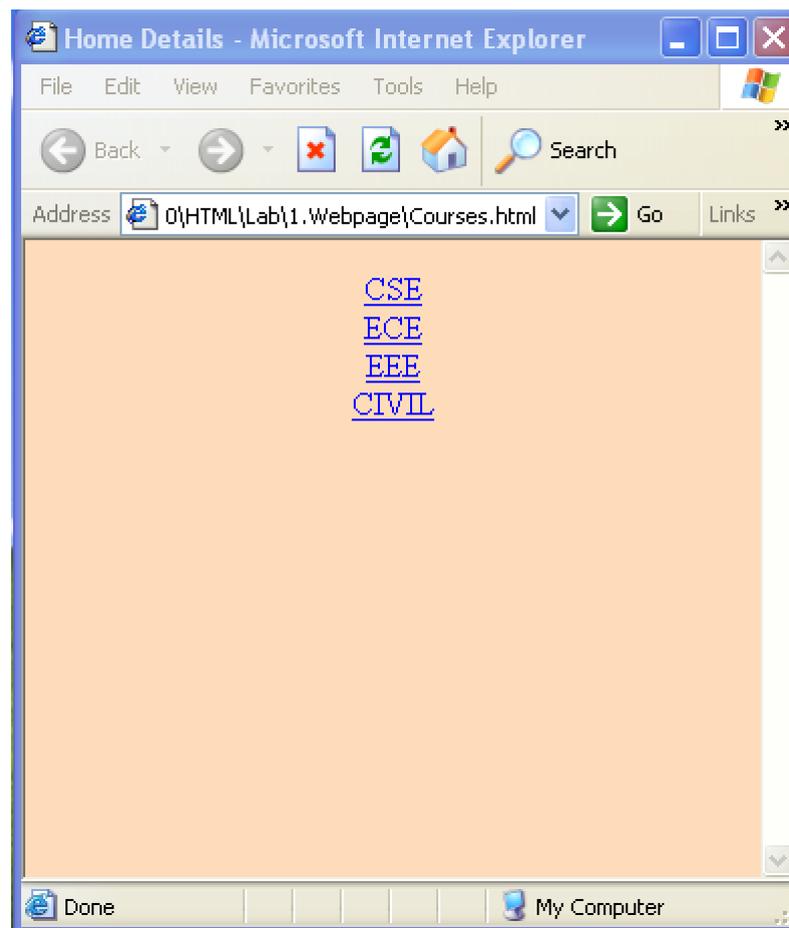
```
<html>
  <head>
    <title>Cursor demo</title>
    <style type="text/css">
      .link1{ cursor:default }
      .link2{ cursor:crosshair }
      .link3{ cursor:hand }
      .link4{ cursor:move }
      .link5{ cursor:text }
      .link6{ cursor:wait }
      .link7{ cursor:help }
      .link8{ cursor:n-resize }
      .link9{ cursor:s-resize }
      .link10{ cursor:e-resize }
      .link11{ cursor:w-resize }
      .link12{ cursor:progress }
      .link13{ cursor:not-allowed }
      .link14{ cursor:no-drop }
      .link15{ cursor:all-scroll }
    </style>
  </head>
  <body>
    <b><a href="test.html" class="link1">default cursor</a><br/>
    <b><a href="test.html" class="link2">crosshair cursor</a> <br/>
    <b><a href="test.html" class="link3">hand cursor</a><br/>
    <b><a href="test.html" class="link4">move cursor</a><br/>
    <b><a href="test.html" class="link5">text cursor</a><br/>
    <b><a href="test.html" class="link6">wait cursor</a><br/>
    <b><a href="test.html" class="link7">help cursor</a><br/>
    <b><a href="test.html" class="link8">n-resize cursor</a><br/>
    <b><a href="test.html" class="link9">s-resize cursor</a><br/>
    <b><a href="test.html" class="link10">e-resize cursor</a><br/>
    <b><a href="test.html" class="link11">w-resize cursor</a><br/>
    <b><a href="test.html" class="link12">progress cursor</a><br/>
    <b><a href="test.html" class="link13">not-allowed cursor</a><br/>
    <b><a href="test.html" class="link14">no-drop cursor</a> <br/>
    <b><a href="test.html" class="link15">all-scroll cursor</a><br/>
  </body>
</html>
```

## OUTPUT:



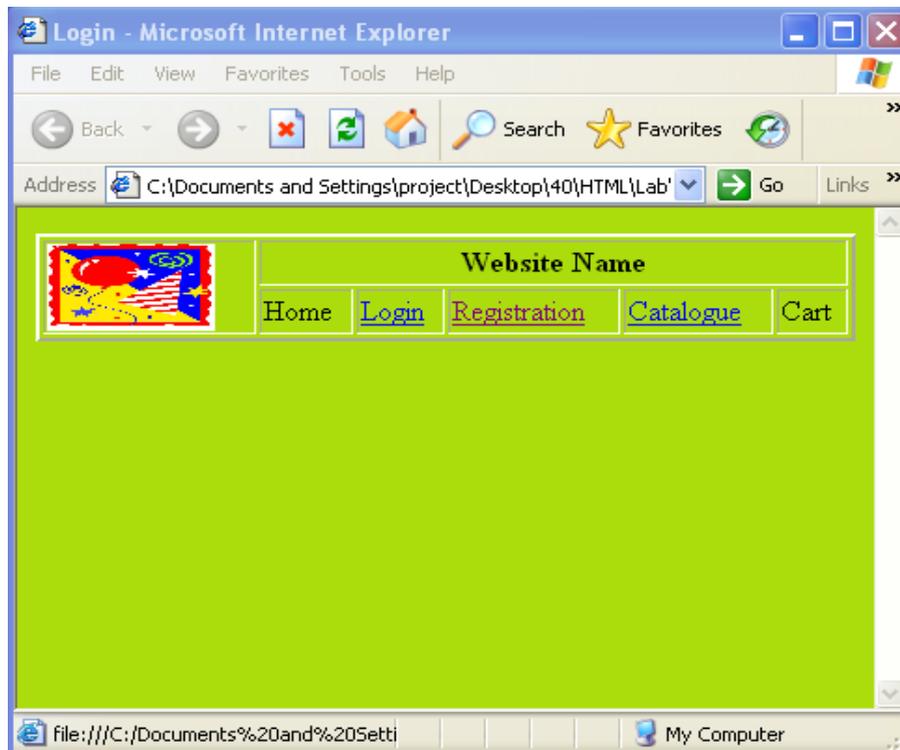
**courses.html**

```
<html>
  <head>
    <title>Home Details</title>
  </head>
  <body bgcolor="#fedcba">
    <center>
      <a href="Cse.html" target="Bottom Right">CSE</a><br>
      <a href="Ece.html" target="Bottom Right">ECE</a><br>
      <a href="Eee.html" target="Bottom Right">EEE</a><br>
      <a href="Civil.html" target="Bottom Right">CIVIL</a>
    </center>
  </body>
</html>
```

**OUTPUT:**

**menu.html**

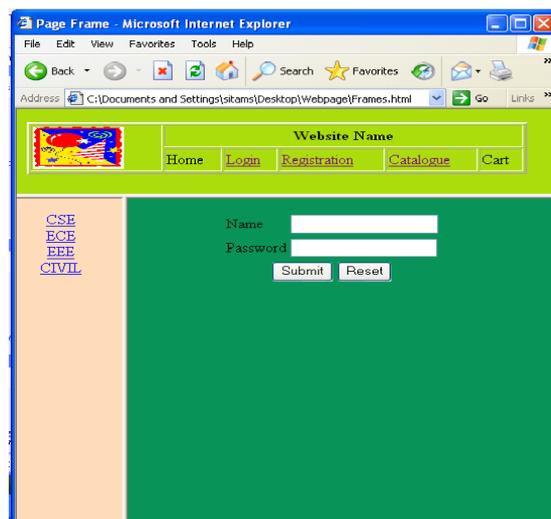
```
<html>
  <head>
    <title>Login</title>
  </head>
  <body bgcolor="#abdd0d">
    <table border="2" width="100%">
      <tr>
        <td rowspan="2"><imgsrc="3.jpg" width=90 height=50></td>
        <th colspan="5">Website Name</th>
      </tr>
      <tr>
        <td>Home</td>
        <td><a href="Login.html" target="Bottom Right">Login</a></td>
        <td><a href="Registration.html" target="Bottom
          Right">Registration</a></td>
        <td><a href="Catalogue.html" target="Bottom
          Right">Catalogue</a></td>
        <td>Cart</td>
      </tr>
    </table>
  </body>
</html>
```

**OUTPUT:**



**LOGIN.HTML**

```
<html>
  <head>
    <title>Login</title>
  </head>
  <body bgcolor="#089459">
    <form name="login" Action:\cgi-bin\mycgi-pl"      method="post">
      <table align=center>
        <tr>
          <td>Name</td>
          <td><input type="text" name="tname"></td>
        </tr>
        <tr>
          <td>Password</td>
          <td><input type="Password" name="pass"></td>
        </tr>
        <tr>
          <td colspan="2" align=center><input type="Submit"
            name="Submit"
            <input type="Reset" name="Reset" value="Reset">
          </td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

**OUTPUT:**

**REGISTRATION FORM (with validation):**Registration.html

```
<html>
  <head>
    <script>
      function name_validate()
      {
        var
        name=document.forms[0].elements[0].value;
        name_re=/^[A-Z][A-Za-z]{6,}/g;
        if(!name.match(name_re))
        alert("please enter valid name");
      }

      function pwd_validate()
      {
        var
        passwd=document.forms[0].elements[1].value; pwd=/^[A-Z]\w{6,}/g;
        if(!passwd.match(h(pwd))
        alert("please enter valid password");
      }
      function mail_validate()
      {
        email=document.forms[0].elements[2].value;
        email_reg=/^[A-Za-z][A-Za-z0-9]+@[A-Za-z0-9,.-]+.[a-zA-Z]{3}/; if(!email.match(email_reg))
        alert("please enter valid mail id");
      }

      function ph_validate()
      {
        phone=document.forms[0].elements[3].value; ph_re=/^d{10}/;
        if(!phone.match(ph_re))
        alert("please enter valid phone number");
      }
    </script>
  </head>
  <body bgcolor="pink">
```

```
<form method="post">
  <h2 align="center">Registration Form</h2>
  <table border="0" width=100% align="center">
    <tr>
      <th>Name</th>
      <td><input type="text" name="uname"
        onBlur="name_validate()">
      </td>
    </tr>
    <tr>
      <th>Password</th>
      <td><input type="password" name="pwd"
        onBlur="pwd_validate()"></td>
    </tr>
    <tr>
      <th>Email_ID</th>
      <td><input type="text" name="eml"
        onBlur="mail_validate()"></td>
    </tr>
    <tr>
      <th>Phone Number</th>
      <td><input type="text" name="pno"
        onBlur="ph_validate()"></td>
    </tr>
    <tr>
      <th>Gender</th>
      <td><input type="radio" name="gender">Female
        <input type="radio"
          name="gender">Male</td>
    </tr>
    <tr>
      <th>DOB</th>
      <th>Date</th>
      <td><select name="date">
        <option>1</option>
        <option>2</option>
        <option>3</option>
        <option>4</option>
        <option>5</option>
        <option>6</option>
        <option>7</option>
        <option>8</option>
        <option>9</option>
        <option>10</option>
        <option>11</option>
        <option>12</option>
        <option>13</option>
        <option>14</option>
        <option>15</option>
        <option>16</option>
      </select>
    </td>
  </tr>
</table>
</form>
```

```
<option>17</option>
<option>18</option>
<option>19</option>
<option>20</option>
<option>21</option>
<option>22</option>
<option>23</option>
<option>24</option>
<option>25</option>
<option>26</option>
<option>27</option>
<option>28</option>
<option>29</option>
<option>30</option>
<option>31</option>
</select></td>
<th>Month</th>
<td><select name="month">
  <option>jan</option>
  <option>feb</option>
  <option>mar</option>
  <option>apr</option>
  <option>may</option>
  <option>jun</option>
  <option>jul</option>
  <option>aug</option>
  <option>sep</option>
  <option>oct</option>
  <option>nov</option>
  <option>dec</option>
</select></td>
<th>Year</th>
  <td><select name="year">
    <option>2000</option>
    <option>2001</option>
    <option>2002</option>
    <option>2003</option>
    <option>2004</option>
    <option>2005</option>
    <option>2006</option>
    <option>2007</option>
    <option>2008</option>
    <option>2009</option>
    <option>2010</option>
    <option>2011</option>
    <option>2012</option>
    <option>2013</option>
    <option>2014</option>
  </select></td>
</tr>
```

```
<tr>
    <th>Languages Known</th>
    <td><input type="checkbox">Telugu</td>
    <td><input type="checkbox">Tamil</td>
    <td><input type="checkbox">English</td>
</tr>
<tr>
    <th>Address</th>
    <td><textarea name="address"
        rows="6"
        cols="10"></textarea></td>
</tr>
<tr>
    <td><input type="submit" value="Submit"></td>
    <td><input type="Reset" value="Reset"></td>
</tr>
</table></form></body></html>
```

OUTPUT:



**JAVASCRIPT STRING MANIPULATION FUNCTIONS:**

```
<html>
  <head>
    <title>String Manipulation</title>
  </head>
  <body text="red">
    <pre>
<h2 align="center"><u>Javascript Array Fucntions</u></h2>
    <script>
      var
      str=prompt("Enetr
the string1 "); var
str2=prompt("Enetr
the string2"); var
str3=prompt("Enter
the string3");
      var pos=prompt("Enter the position u want to
display in string1 "); var res=str.charAt(pos);
      document.writeln("<br/>"+"In string "+str+" position
          "+pos+" is:"+"<b>" +res+"</b>");
      document.writeln(" AfterConcatination:"+"<b>" +str.conca
          t(str2,str3)+"</ b>");
      var i=str2.indexOf("l");
      document.writeln("<br>Index of l in "+str2+"
is:<b>" +i+"</b>"); document.writeln("<br>Length of
"+str3+" is:<b>" +str3.length+"</b>"); var
st=str.concat(str2,str3);
      document.writeln("<br>Substring of (1,3)" +str3+"
          is:<b>" +str3.substr(1,3)+"</b>"
); document.writeln("<br>Last index of e in "+st+"
          is:<b>" +st.lastIndexOf("e")+"</b
>"); document.writeln("<br>After spliting:");
      var stt=st.split(" ");
      for(var i=0;i<stt.length;i++)
      document.writeln("<br><b>" +stt[i]+"</b>");
      document.writeln("<br>After converting in
          uppercase:<b>" +st.toUpperCase()+"<
/b>"); document.writeln("<br>After converting in
          lowercase:<b>" +st.toLowerCase()+"</b>");
    </script>
  </pre>
</body>
</html>
```

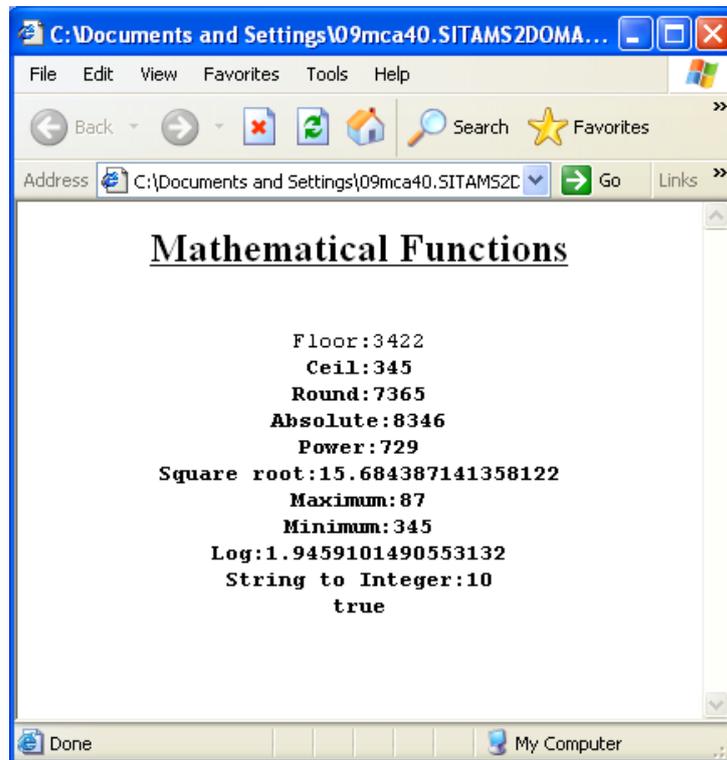
## OUTPUT:

```
js - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites
Address C:\Documents and Settings\sitams\Desktop\2222.html Go Links
Javascript Array Fucntions
In string Javascript is a position 3 is:a
After concatination:Javascript is a Clientside Programming Language
Index of l in Clientside is:1
Length of Programming Language is:20
Substring of (1,3)Programming Language is:rog
Last index of e in Javascript is a Clientside Programming Language is:46
After splitting:
Javascript
is
a
Clientside
Programming
Language
After converting in uppercase:JAVASCRIPT IS A CLIENTSIDE PROGRAMMING LANGUAGE
After converting in lowercase:javascript is a clientside programming language
My Computer
```

**JAVASCRIPT MATHEMATICAL FUNCTIONS:**

```
<html>
<body>
  <center>
    <h2><u>Mathematical Functions</u></h2>
  <pre>
    <script>
      document.writeln("<br/>"+"Floor:"+Mat
h.floor(3422.74));
      document.writeln("<b>"+"Ceil:"+Math.c
eil(344.45));
      document.writeln("<b>"+"Round:"+Mat
h.round(7364.87));
      document.writeln("<b>"+"Absolute:"+M
ath.abs(-8346));
      document.writeln("<b>"+"Power:"+Mat
h.pow(3,6));
      document.writeln("<b>"+"Square
root:"+Math.sqrt(246));
      document.writeln("<b>"+"Maximum:"+
Math.max(74,87));
      document.writeln("<b>"+"Minimum:"+M
ath.min(345,958));
      document.writeln("<b>"+"Log:"+Math.l
og(7));
      var res=parseInt(1010,2);
      document.writeln("<b>"+"String
to Integer:"+res); var
      res1=isNaN()
      document.writeln(res1);
    </script>
  </pre>
</center> </body> </html>
```

## OUTPUT:

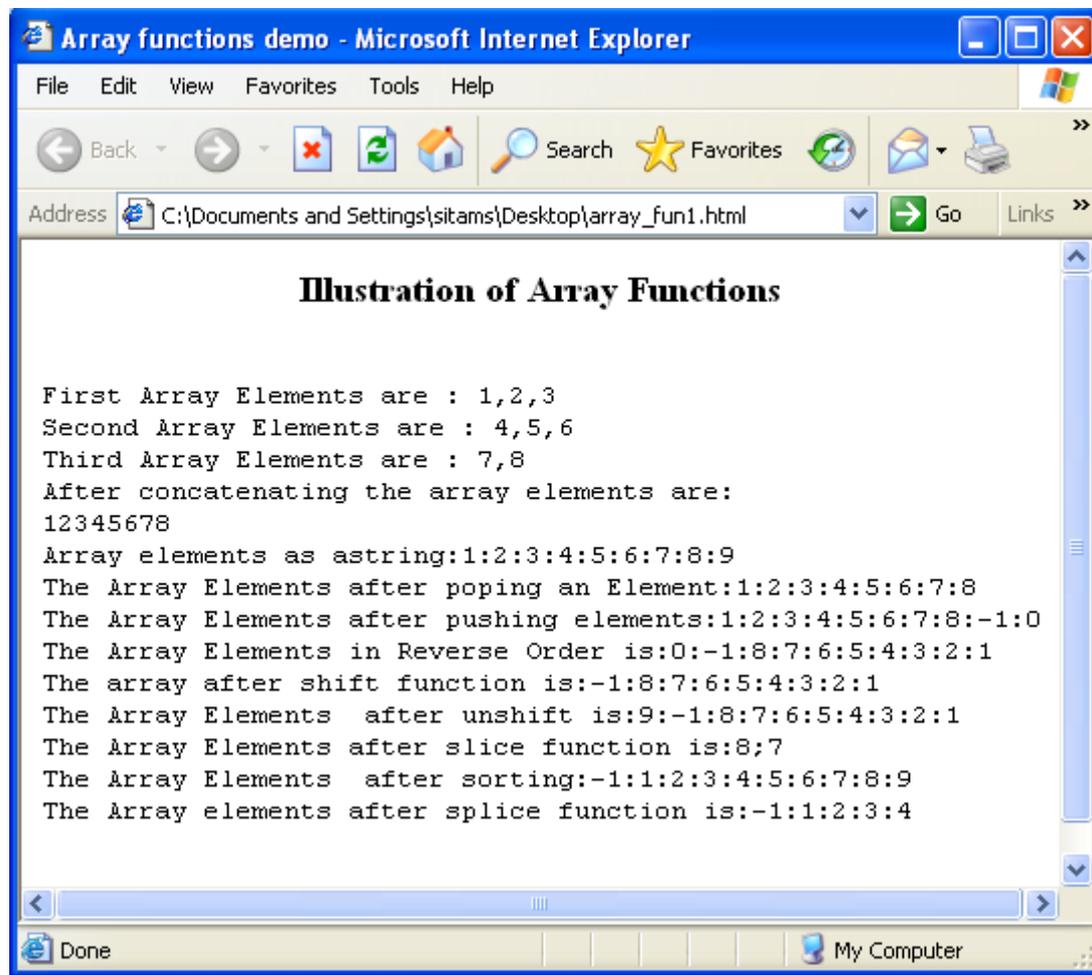


**JAVASCRIPT ARRAY FUNCTIONS:**

```
<html>
<head>
<title>Array functions demo</title>
</head>
<body>
<h3 align = "center" > Illustration of Array Functions </h3>
<pre>
<script>
//concat function: combines array elements var first=[1,2,3];
var second=[4,5,6]; var third=[7,8];
var res=first.concat(second,third); document.writeln("<br/>"+"First Array Elements
are : "
+first.join(",")); document.writeln("Second Array Elements are : "
+second.join(",")); document.writeln("Third Array Elements are : "
+third.join(","));
document.writeln("After concatenating the array elements are:"); for(var i = 0;i
<res.length;i++)
document.write(res[i]);
//Join function: combines array elements as string var a=[1,2,3,4,5,6,7,8,9];
var str=a.join(":"); document.writeln("<br/>"+"Array elements as
a string:"+str);//1:2:3:4:5:6:7:8:9
//pop function:Delete elements at the end of array a.pop();
var str1=a.join(":");
document.writeln("The Array Elements after popping an Element:" +
str1);//1:2:3:4:5:6:7:8
//push function: Inserts an element at the end of array a.push(-1,0);
var str2=a.join(":");
document.writeln("The Array Elements after
pushing elements:" +str2);//-1:0:1:2:3:4:5:6:7:8
//reverse function: reverse the array a.reverse();
var str3=a.join(":");
document.writeln("The Array Elements in Reverse Order
is:"+str3);//8:7:6:5:4:3:2:1:0:-1
//shift function: Remove an element at the front of array a.shift();
var str4=a.join(":");
document.writeln("The array after shift function is:"+str4);//7:6:5:4:3:2:0:-1
//unshift function: Insert an element at the front of array
a.unshift(9);
var str5=a.join(":");
document.writeln("The Array Elements after
unshift is:"+str5);//9:7:6:5:4:3:2:1:0:-1
```

```
//slice function: Extract elements
var b=a.slice(2,4); var str6=b.join(";");
document.writeln("The Array Elements after slice function is:"+str6);//9:7:4:3:2:1:0:-
1
//sort function:sort elements in dictionary order a.sort();
var str7=a.join(":");
document.writeln("The Array Elements after sorting:"+str7);//-1:0:1:2:3:4:7:9
//splice function:insert elements into at specified position a.splice(5,10);
var str8=a.join(":");
document.writeln("The Array elements after splice function is:"+str8);
</script>
</pre>
</body>
</html>
```

## OUTPUT:



The screenshot shows a Microsoft Internet Explorer browser window titled "Array functions demo - Microsoft Internet Explorer". The address bar displays the file path "C:\Documents and Settings\sitams\Desktop\array\_fun1.html". The main content area displays the following text:

```
Illustration of Array Functions

First Array Elements are : 1,2,3
Second Array Elements are : 4,5,6
Third Array Elements are : 7,8
After concatenating the array elements are:
12345678
Array elements as astring:1:2:3:4:5:6:7:8:9
The Array Elements after popping an Element:1:2:3:4:5:6:7:8
The Array Elements after pushing elements:1:2:3:4:5:6:7:8:-1:0
The Array Elements in Reverse Order is:0:-1:8:7:6:5:4:3:2:1
The array after shift function is:-1:8:7:6:5:4:3:2:1
The Array Elements after unshift is:9:-1:8:7:6:5:4:3:2:1
The Array Elements after slice function is:8;7
The Array Elements after sorting:-1:1:2:3:4:5:6:7:8:9
The Array elements after splice function is:-1:1:2:3:4
```

The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help), a toolbar with navigation buttons (Back, Forward, Stop, Refresh, Home), a search bar, and a status bar at the bottom showing "Done" and "My Computer".

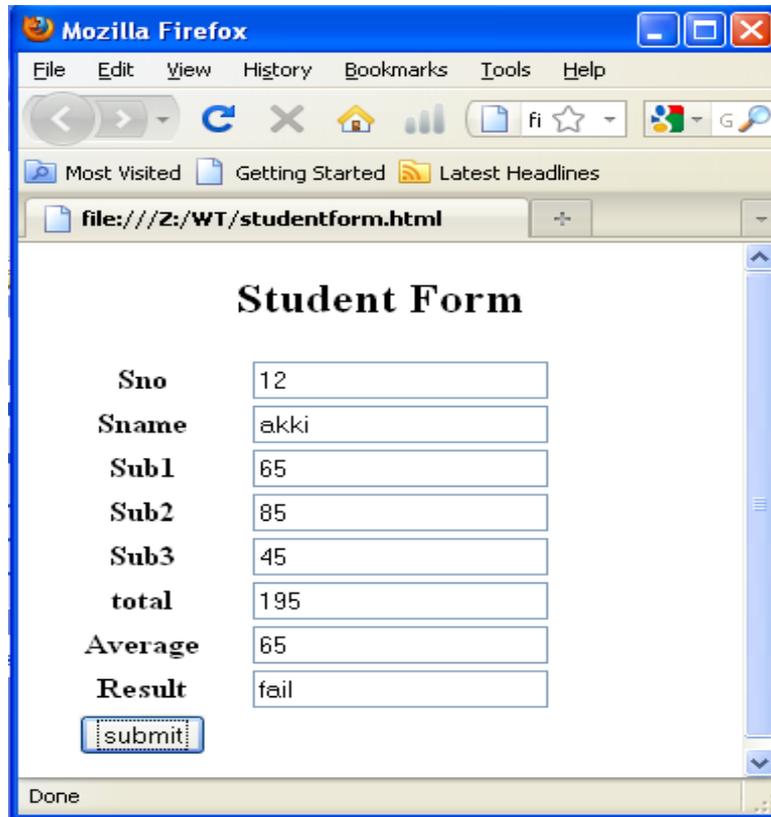
**A PROGRAM TO ILLUSTRATE JAVASCRIPT EVENTS:**

```
<html>

  <head>
  <script>
  function compute()
  {
  var m1=document.forms[0].elements[2].value; var s1=parseInt(m1);
  var m2=document.forms[0].elements[3].value; var s2=parseInt(m2);
  var m3=document.forms[0].elements[4].value; var s3=parseInt(m3);
  var tot=s1+s2+s3; var avg=tot/3; var res;
  if((s1>=50)&&(s2>=50)&&(s3>=50))
  res="pass"; else res="fail";
  document.forms[0].elements[5].value=tot; document.forms[0].elements[6].value=avg;
  document.forms[0].elements[7].value=res;
  }
  </script>
  </head>
  <body>
  <form method="post">
  <center>
  <h2>Student Form</h2>
  <table border="0" width=100% align="center">
  <tr>
  <th>Sno</th>
  <td><input type="text" name="sno"></td>
  </tr>
  <tr>
  <th>Sname</th>
  <td><input type="text" name="sname"></td>
  </tr>
  <tr>
  <th>Sub1</th>
  <td><input type="text" name="s1"></td>
  </tr>
  <tr>
  <th>Sub2</th>
  <td><input type="text" name="s2"></td>
  </tr>
  <tr>
  <th>Sub3</th>
  <td><input type="text" name="s3"></td>
```

```
</tr>
<tr>
<th>total</th>
<td><input type="text" name="tot"></td>
</tr>
<tr>
<th>Average</th>
<td><input type="text" name="avg"></td>
</tr>
<tr>
<th>Result</th>
<td><input type="text" name="res"></td>
</tr>
<tr>
<th align="center">
<input type="button" value="submit" onClick="compute()">
</th>
</tr>
</table>
</center>
</form>
</body>
</html>
```

## OUTPUT:



The screenshot shows a Mozilla Firefox browser window displaying a web form titled "Student Form". The browser's address bar shows the file path: file:///Z:/WT/studentform.html. The form contains the following fields and values:

Field	Value
Sno	12
Sname	akki
Sub1	65
Sub2	85
Sub3	45
total	195
Average	65
Result	fail

Below the form fields is a "submit" button. The browser's status bar at the bottom indicates "Done".

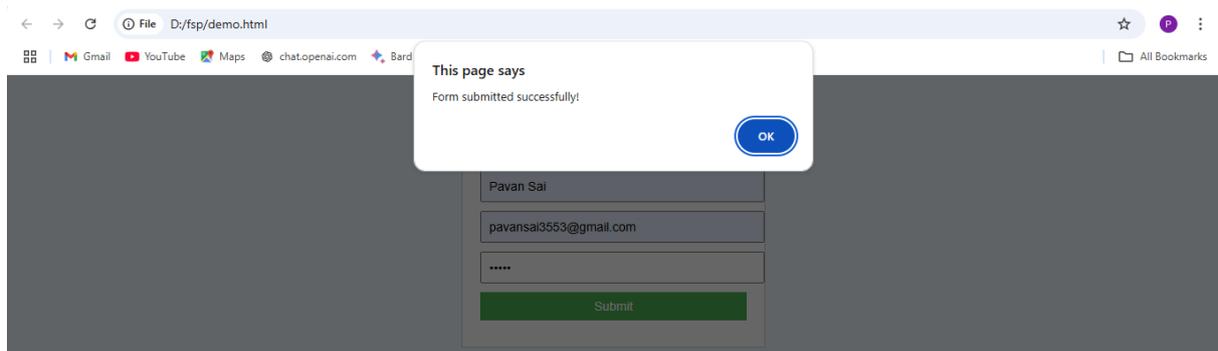
```
<!DOCTYPE html>
<html>
<head>
  <title>Basic Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f8ff;
      padding: 20px;
    }
    form {
      background-color: white;
      padding: 20px;
      border: 1px solid #ccc;
      max-width: 300px;
      margin: auto;
    }
    input, button {
      display: block;
      width: 100%;
      margin: 10px 0;
      padding: 8px;
      font-size: 14px;
    }
    button {
      background-color: #4CAF50;
      color: white;
      border: none;
    }
    .error {
      color: red;
      font-size: 13px;
      text-align: center;
    }
  </style>
</head>
<body>

  <form id="basicForm">
    <h3>Signup</h3>
    <input type="text" id="name" placeholder="Name">
    <input type="email" id="email" placeholder="Email">
    <input type="password" id="password" placeholder="Password">
```

```
<button type="submit">Submit</button>
<div class="error" id="errorMsg"></div>
</form>

<script>
document.getElementById("basicForm").onsubmit = function(e) {
  e.preventDefault();
  const name = document.getElementById("name").value.trim();
  const email = document.getElementById("email").value.trim();
  const pass = document.getElementById("password").value.trim();
  const error = document.getElementById("errorMsg");

  if (!name || !email || !pass) {
    error.textContent = "All fields are required.";
  } else {
    error.textContent = "";
    alert("Form submitted successfully!");
    this.reset();
  }
};
</script>
</body>
</html>
```

**OUTPUT:****ENTERING DETAILS FOR “SIGNUP”****AFTER CLICKING SUBMIT, FORM SUBMITTED SUCCESSFULLY!**

```
<!DOCTYPE html>
<html>
<head>
  <title>Fetch API</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f9f9f9;
      padding: 20px;
      text-align: center;
    }

    h2 {
      color: #333;
    }

    .card {
      background-color: #fff;
      padding: 15px;
      margin: 10px;
      border: 1px solid #ddd;
      border-radius: 5px;
      width: 200px;
      display: inline-block;
      text-align: left;
    }

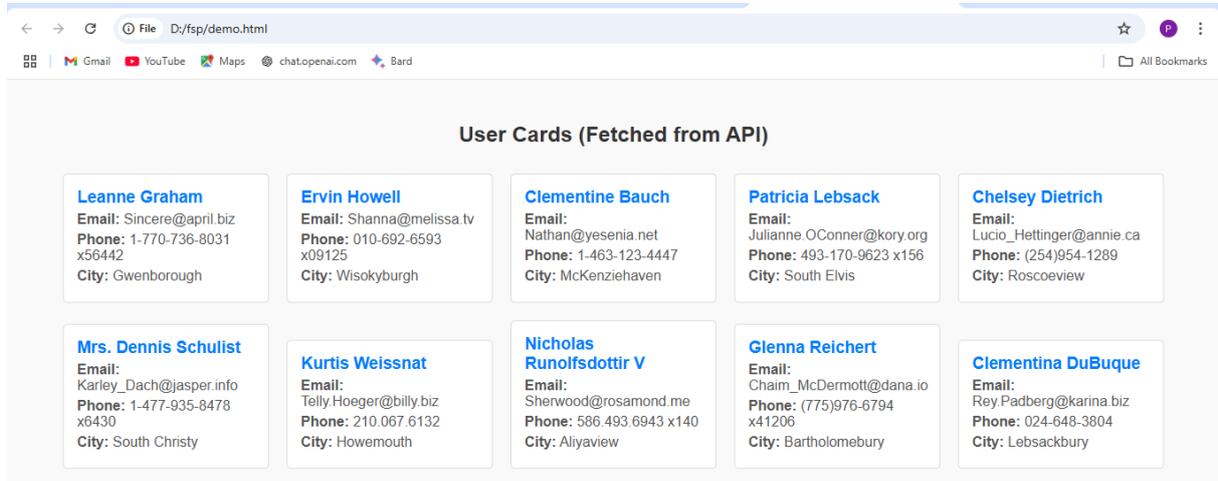
    .card h3 {
      color: #007BFF;
      margin: 0;
    }

    .card p {
      margin: 5px 0;
      color: #555;
    }
  </style>
</head>
<body>

  <h2>User Cards (Fetched from API)</h2>
  <div id="cardsContainer"></div>
```

```
<script>
  fetch('https://jsonplaceholder.typicode.com/users')
  .then(response => response.json())
  .then(users => {
    const container = document.getElementById('cardsContainer');
    users.forEach(user => {
      const card = document.createElement('div');
      card.className = 'card';
      card.innerHTML = `
        <h3>${user.name}</h3>
        <p><strong>Email:</strong> ${user.email}</p>
        <p><strong>Phone:</strong> ${user.phone}</p>
        <p><strong>City:</strong> ${user.address.city}</p>
      `;
      container.appendChild(card);
    });
  })
  .catch(error => {
    document.getElementById('cardsContainer').innerHTML = `<p
style="color:red;">Error fetching data: ${error}</p>`;
  });
</script>
</body>
</html>
```

## OUTPUT:



The screenshot shows a web browser window with the address bar displaying "File D:/fsp/demo.html". The browser's taskbar includes icons for Gmail, YouTube, Maps, chat.openai.com, and Bard. The main content area is titled "User Cards (Fetched from API)" and displays a grid of 10 user cards, each with a name, email, phone number, and city.

Name	Email	Phone	City
Leanne Graham	Sincere@april.biz	1-770-736-8031 x56442	Gwenborough
Ervin Howell	Shanna@melissa.tv	010-692-6593 x09125	Wisokyburgh
Clementine Bauch	Nathan@yesenia.net	1-463-123-4447	McKenziehaven
Patricia Lebsack	Julianne.OConner@kory.org	493-170-9623 x156	South Elvis
Chelsey Dietrich	Lucio_Hettinger@annie.ca	(254)954-1289	Roscoeview
Mrs. Dennis Schulist	Karley_Dach@jasper.info	1-477-935-8478 x6430	South Christy
Kurtis Weissnat	Telly.Hoeger@billy.biz	210.067.6132	Howemouth
Nicholas Runolfsdottir V	Sherwood@rosamond.me	586.493.6943 x140	Aliyaview
Glenna Reichert	Chaim_McDermott@dana.io	(775)976-6794 x41206	Bartholomebury
Clementina DuBuque	Rey.Padberg@karina.biz	024-648-3804	Lebsackbury

### index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Static Server</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1>Welcome to My Simple Static Server</h1>
  </header>

  <section>
    <p>This is a basic page served using Node.js without Express.</p>
    <p>Enjoy exploring!</p>
  </section>

  <footer>
    <p>Created by PS</p>
  </footer>
</body>
</html>
```

### style.css

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f4f4f4;
}

header {
  background-color: #333;
  color: white;
  padding: 10px 0;
  text-align: center;
}

section {
  padding: 20px;
```

```
    text-align: center;
  }

  footer {
    background-color: #333;
    color: white;
    text-align: center;
    padding: 10px 0;
    position: fixed;
    width: 100%;
    bottom: 0;
  }

  h1 {
    margin: 0;
  }
```

### server.js

```
const http = require('http');
const fs = require('fs');
const path = require('path');

// Create a server
http.createServer((req, res) => {
  // Set the file path based on the URL
  let filePath = '.' + req.url;
  if (filePath === './') filePath = './index.html'; // Default to index.html

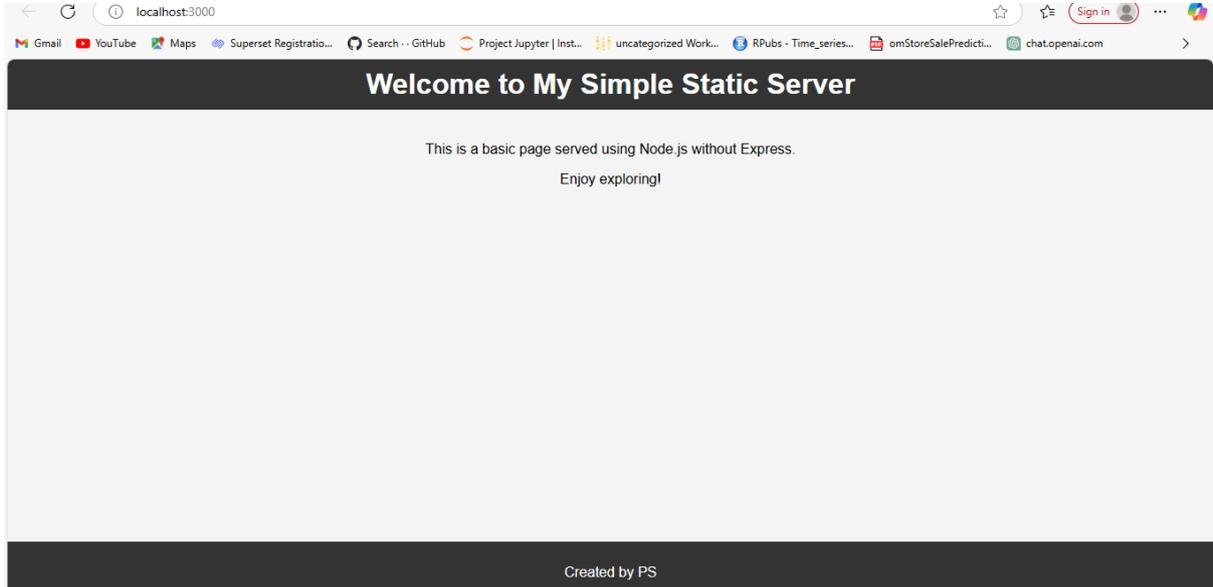
  // Get the file extension
  const extname = path.extname(filePath);
  let contentType = 'text/html'; // Default to HTML

  // Determine the content type based on the file extension
  if (extname === '.css') {
    contentType = 'text/css';
  }

  // Read and serve the file
  fs.readFile(filePath, (err, data) => {
    if (err) {
      res.writeHead(404, { 'Content-Type': 'text/plain' });
      res.end('404 Not Found');
    } else {
```

```
        res.writeHead(200, { 'Content-Type': contentType });
        res.end(data);
    }
});
}).listen(3000, () => {
    console.log('Server running at http://localhost:3000');
});
```

**OUTPUT:**



**server.js**

```
const express = require('express');
const fs = require('fs');
const exphbs = require('express-handlebars');

const app = express();

app.engine('hbs', exphbs.create({ extname: 'hbs', defaultLayout: false }).engine);
app.set('view engine', 'hbs');
app.use(express.urlencoded({ extended: true }));

app.get('/', (req, res) => res.render('form'));

app.post('/submit', (req, res) => {
  fs.writeFileSync('data.json', JSON.stringify(req.body));
  res.redirect('/data');
});

app.get('/data', (req, res) =>
  res.render('data', { data: JSON.parse(fs.readFileSync('data.json')) })
);

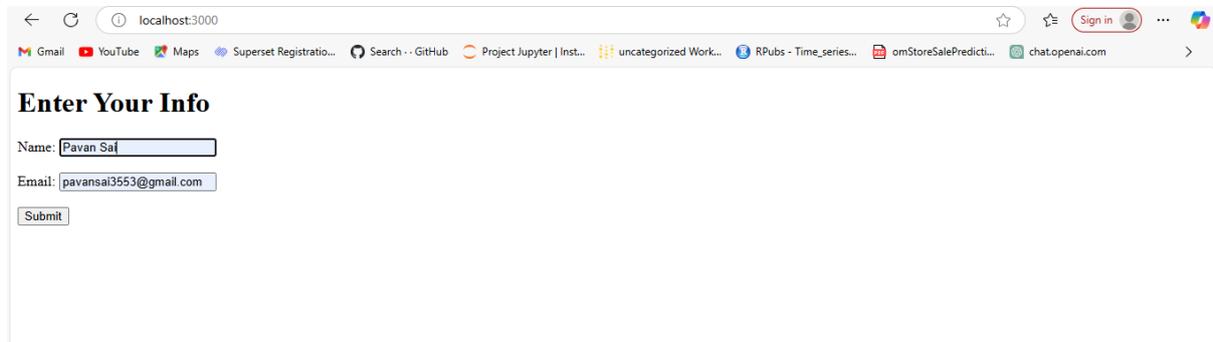
app.listen(3000, () => console.log('http://localhost:3000'));
```

**views/form.hbs (the form page)**

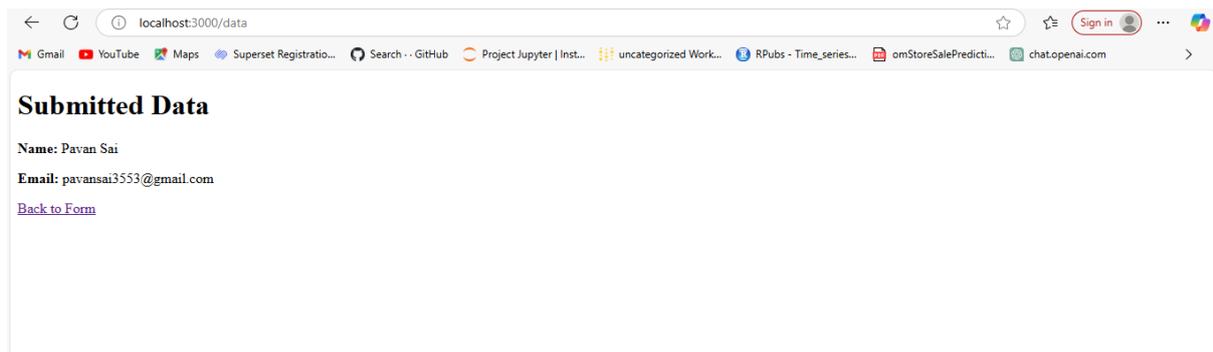
```
<!DOCTYPE html>
<html>
<head>
  <title>Form Page</title>
</head>
<body>
  <h1>Enter Your Info</h1>
  <form action="/submit" method="POST">
    <label>Name: <input type="text" name="name" required></label><br><br>
    <label>Email: <input type="email" name="email" required></label><br><br>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
```

**views/data.hbs (the redirect page that shows saved data)**

```
<!DOCTYPE html>
<html>
<head>
  <title>Data Page</title>
</head>
<body>
  <h1>Submitted Data</h1>
  <p><strong>Name:</strong> {{ data.name }}</p>
  <p><strong>Email:</strong> {{ data.email }}</p>
  <a href="/">Back to Form</a>
</body>
</html>
```

**OUTPUT:****ENTERING DETAILS**

A screenshot of a web browser at localhost:3000. The page title is "Enter Your Info". It features two input fields: "Name:" with the value "Pavan Sai" and "Email:" with the value "pavansai3553@gmail.com". Below the fields is a "Submit" button. The browser's address bar shows "localhost:3000" and the tab bar includes "Sign in" and various other tabs.

**AFTER SUBMITTING FORM, REDIRECT TO ANOTHER PAGE AND DISPLAY THE SUBMITTED DATA**

A screenshot of a web browser at localhost:3000/data. The page title is "Submitted Data". It displays the submitted information: "Name: Pavan Sai" and "Email: pavansai3553@gmail.com". Below the email is a blue link labeled "Back to Form". The browser's address bar shows "localhost:3000/data" and the tab bar includes "Sign in" and various other tabs.

**server.js (Main server file)**

```
const express = require('express');

const mongoose = require('mongoose');

const bodyParser = require('body-parser');

const Student = require('./models/student');

const app = express();

mongoose.connect('mongodb://localhost/studentDB');

app.use(bodyParser.urlencoded({ extended: true }));

app.set('view engine', 'ejs');

// Routes

app.route('/')

  .get(async (req, res) => res.render('index', { students: await Student.find() }));

app.route('/add')

  .get((req, res) => res.render('form'))

  .post(async (req, res) => {

    await new Student(req.body).save();

    res.redirect('/');

  });

app.route('/edit/:id')

  .get(async (req, res) => res.render('edit', { student: await Student.findById(req.params.id)

  }));
```

```
.post(async (req, res) => {  
  await Student.findByIdAndUpdate(req.params.id, req.body);  
  res.redirect('/');  
});
```

```
app.get('/delete/:id', async (req, res) => {  
  await Student.findByIdAndDelete(req.params.id);  
  res.redirect('/');  
});
```

```
app.listen(3000, () => console.log('Server running on http://localhost:3000'));
```

### **models/student.js (MongoDB Schema for Student)**

```
const mongoose = require('mongoose');  
  
const studentSchema = new mongoose.Schema({  
  name: String,  
  age: Number,  
  grade: String  
});  
  
module.exports = mongoose.model('Student', studentSchema);
```

**views/form.ejs (Form to Add Student)**

```
<!DOCTYPE html>

<html>

<head>

  <title>Add Student</title>

</head>

<body>

  <h1>Add Student</h1>

  <form action="/add" method="POST">

    <input type="text" name="name" placeholder="Name" required><br>
    <input type="number" name="age" placeholder="Age" required><br>
    <input type="text" name="grade" placeholder="Grade" required><br>
    <button type="submit">Submit</button>

  </form>

  <a href="/">Back to Students List</a>

</body>

</html>
```

**views/edit.ejs (Form to Edit Student)**

```
<!DOCTYPE html>

<html>

<head>

  <title>Edit Student</title>

</head>

<body>

  <h1>Edit Student</h1>
```

```
<form action="/edit/<%= student._id %>" method="POST">
  <input type="text" name="name" value="<%= student.name %>" required><br>
  <input type="number" name="age" value="<%= student.age %>" required><br>
  <input type="text" name="grade" value="<%= student.grade %>" required><br>
  <button type="submit">Update</button>
</form>

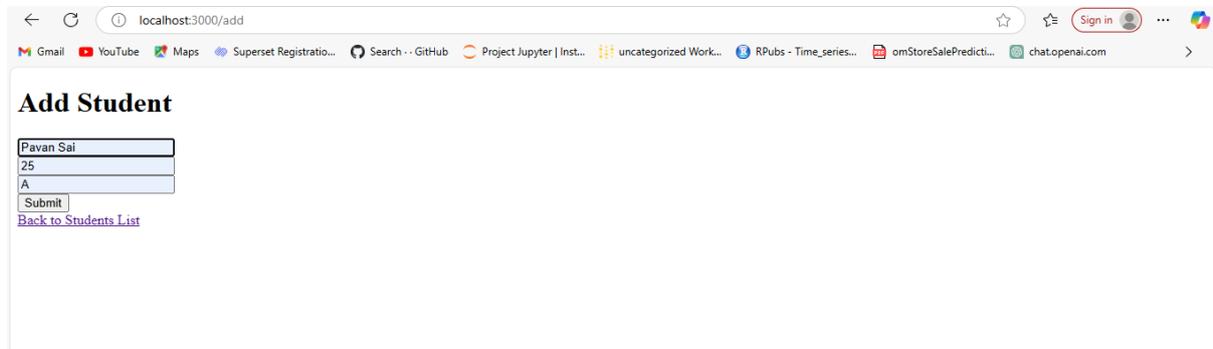
<a href="/">Back to Students List</a>

</body>
</html>
```

### views/index.ejs (List of Students)

```
<!DOCTYPE html>
<html>
<head>
  <title>Student List</title>
</head>
<body>
  <h1>Student List</h1>
  <a href="/add">Add Student</a><br><br>
  <table border="1">
    <tr>
      <th>Name</th>
      <th>Age</th>
      <th>Grade</th>
      <th>Actions</th>
    </tr>
    <% students.forEach(student => { %>
```

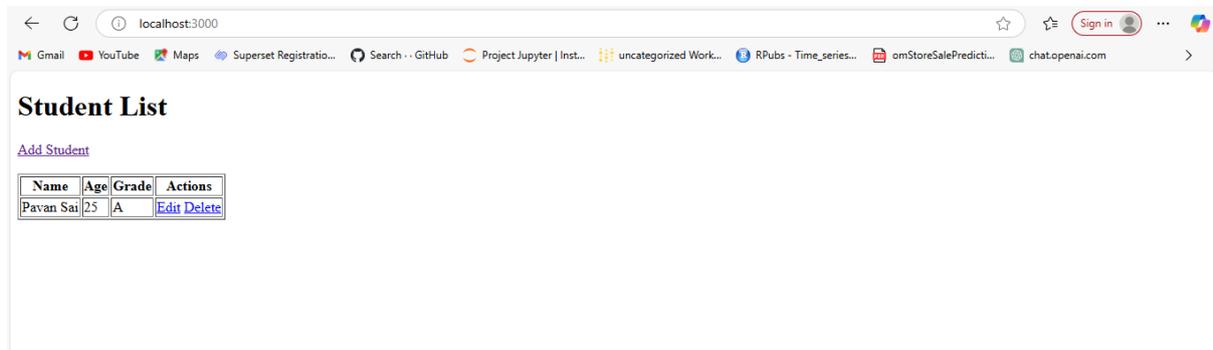
```
<tr>
  <td><%= student.name %></td>
  <td><%= student.age %></td>
  <td><%= student.grade %></td>
  <td>
    <a href="/edit/<%= student._id %>">Edit</a>
    <a href="/delete/<%= student._id %>">Delete</a>
  </td>
</tr>
<% }); %>
</table>
</body>
</html>
```

**OUTPUT:****ADD STUDENT DATA**

localhost:3000/add

**Add Student**

Pavan Sai  
25  
A  
Submit  
[Back to Students List](#)

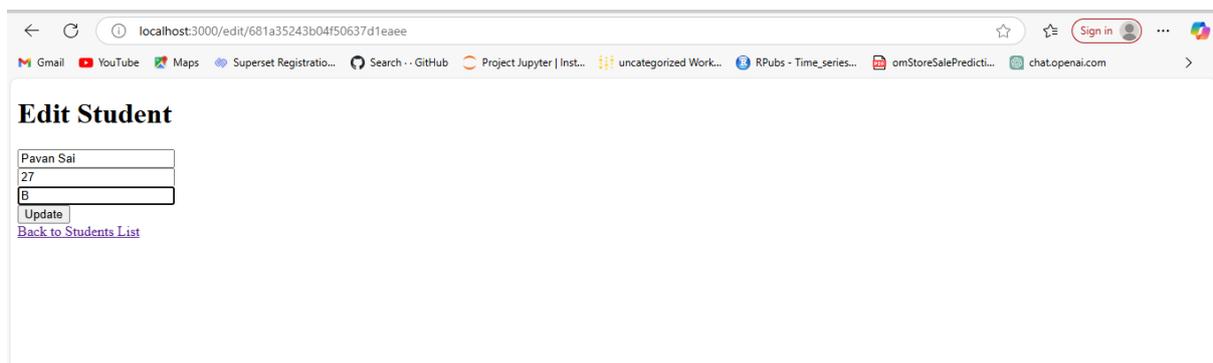
**VIEWING STUDENT LIST**

localhost:3000

**Student List**

[Add Student](#)

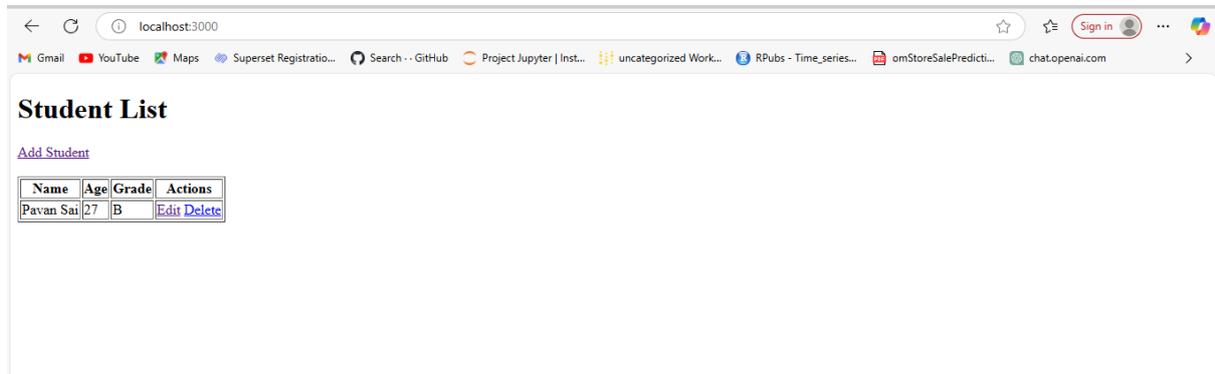
Name	Age	Grade	Actions
Pavan Sai	25	A	<a href="#">Edit</a> <a href="#">Delete</a>

**UPDATE STUDENT DATA**

localhost:3000/edit/681a35243b04f50637d1eae

**Edit Student**

Pavan Sai  
27  
B  
Update  
[Back to Students List](#)

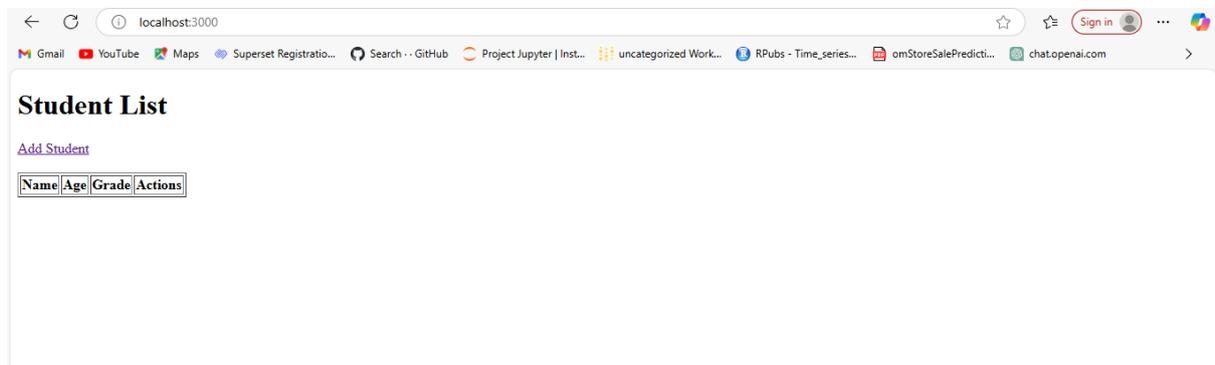
**AFTER UPDATION VIEWING STUDENT LIST**

localhost:3000

Student List

[Add Student](#)

Name	Age	Grade	Actions
Pavan Sai	27	B	<a href="#">Edit</a> <a href="#">Delete</a>

**AFTER DELETION VIEWING STUDENT LIST**

localhost:3000

Student List

[Add Student](#)

Name	Age	Grade	Actions
------	-----	-------	---------

### index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>React Count App</title>
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

### App.js

```
import React, { useState } from "react";

function App() {
  const [count, setCount] = useState(0);

  return (
    <div className="app">
      <h1>Simple Count App</h1>
      <div className="counter">{count}</div>
      <div className="buttons">
        <button onClick={() => setCount(count - 1)}>-</button>
        <button onClick={() => setCount(0)}>Reset</button>
        <button onClick={() => setCount(count + 1)}>+</button>
      </div>
    </div>
  );
}

export default App;
```

### App.css

```
body {
  margin: 0;
  padding: 0;
  font-family: Arial, sans-serif;
  background-color: #f7f9fc;
  display: flex;
  justify-content: center;
  align-items: center;
```

```
    height: 100vh;
  }

  .app {
    text-align: center;
    background: white;
    padding: 2rem;
    border-radius: 10px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  }

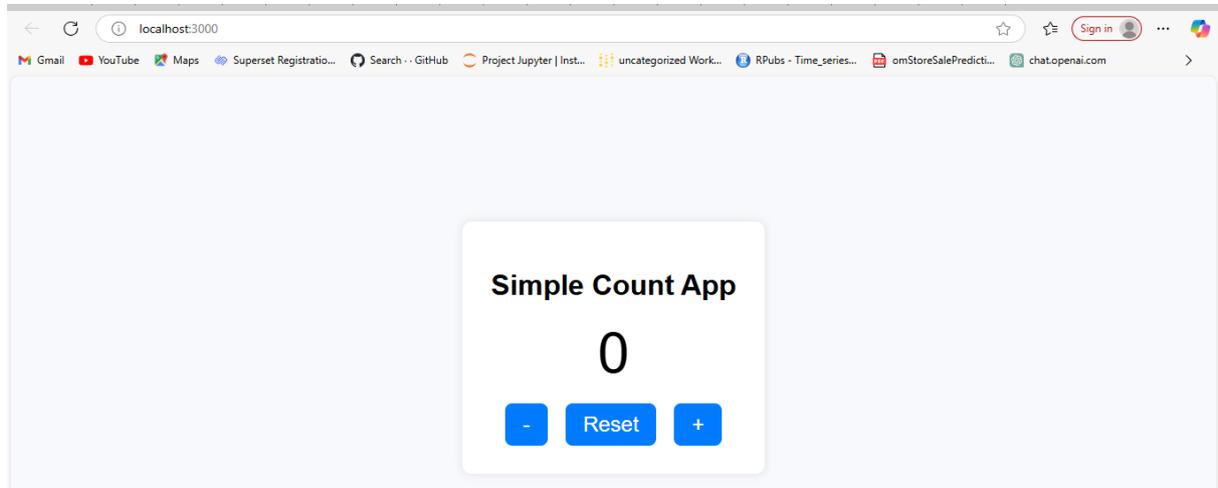
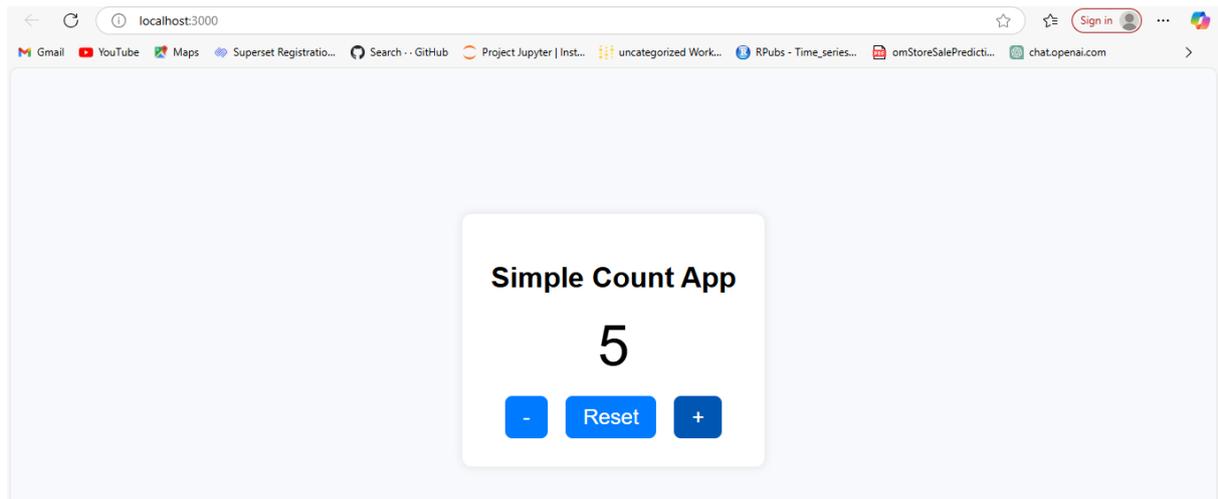
  .counter {
    font-size: 4rem;
    margin: 20px 0;
  }

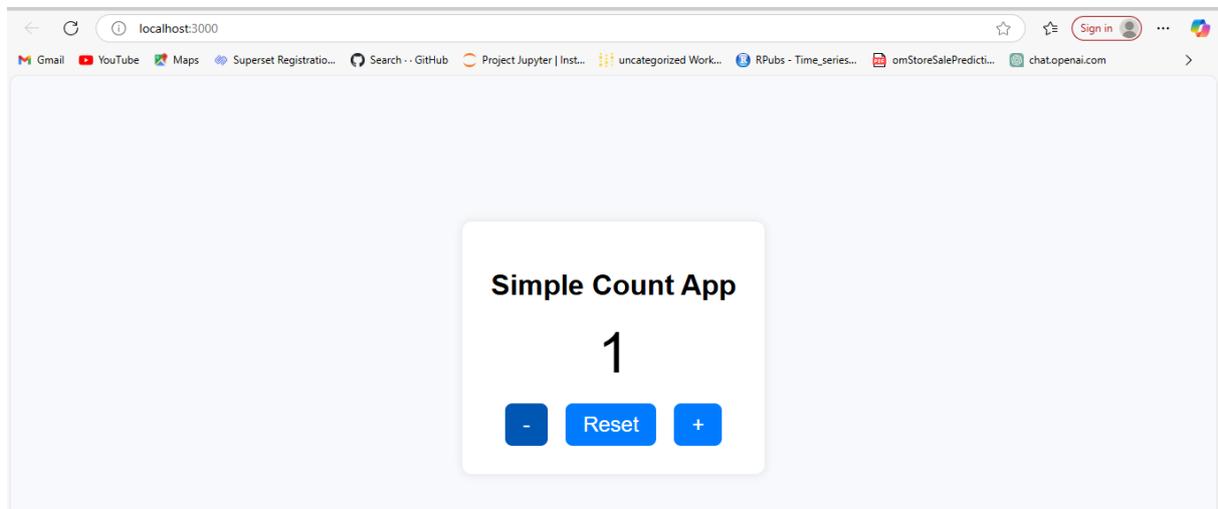
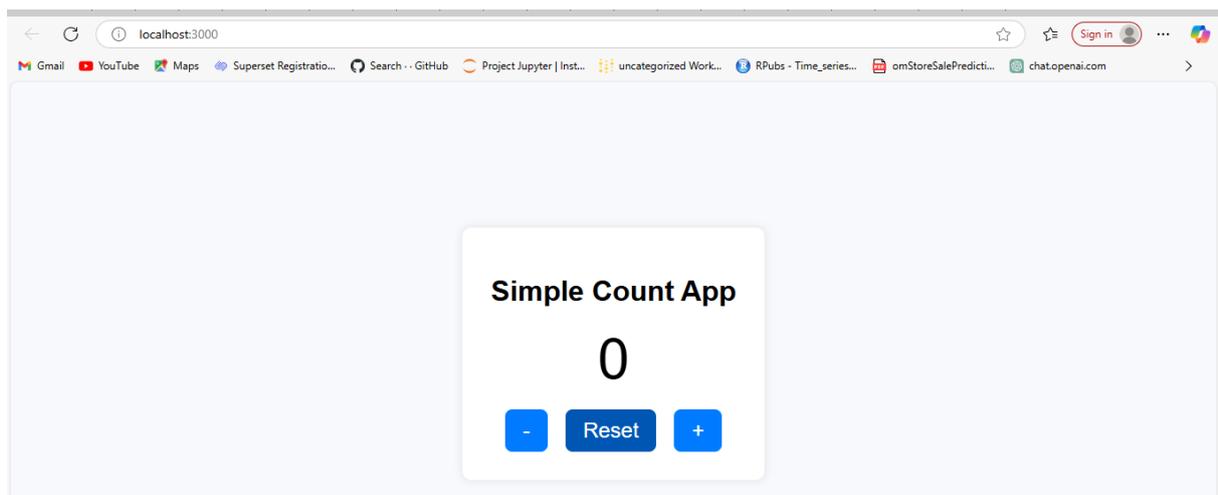
  .buttons button {
    font-size: 1.5rem;
    padding: 10px 20px;
    margin: 0 10px;
    border: none;
    border-radius: 8px;
    cursor: pointer;
    background-color: #007bff;
    color: white;
    transition: background-color 0.2s ease;
  }

  .buttons button:hover {
    background-color: #0056b3;
  }
```

### [index.js](#)

```
import React from "react";
import ReactDOM from "react-dom/client";
import App from "./App.js";
import "./App.css";
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);
```

**OUTPUT:****VIEWING COUNT APP****INCREASED COUNT VALUE FROM "0" TO "5"**

**DECREASED COUNT VALUE FROM “5” TO “1”****AFTER RESETTING THE COUNT APP**

## Frontend Code

### index.html

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Todo App</title>

  </head>

  <body>

    <div id="root"></div>

  </body>

</html>
```

### App.js

```
import { useEffect, useState } from 'react';

import { v4 as uuid } from 'uuid';

export default function App() {

  const [todos, setTodos] = useState([]);

  const [task, setTask] = useState("");

  // Fetch todos from the backend when the component mounts
```

```
useEffect(() => {

  fetch('http://localhost:5000/todos')

    .then((res) => res.json())

    .then(setTodos);

}, []);

const add = async () => {

  if (!task) return;

  // Post the new task to the backend

  await fetch('http://localhost:5000/todos', {

    method: 'POST',

    headers: { 'Content-Type': 'application/json' },

    body: JSON.stringify({ id: uuid(), task }),

  });

  // Reset the input field and update the todo list

  setTask("");

  const res = await fetch('http://localhost:5000/todos');

  setTodos(await res.json());

};

const del = async (id) => {

  // Delete the task from the backend
```

```
await fetch(`http://localhost:5000/todos/${id}`, { method: 'DELETE' });

setTodos(todos.filter((t) => t.id !== id));

};

return (

  <div style={{ textAlign: 'center', marginTop: 30 }}>

    <h2>Todo App</h2>

    <input

      value={task}

      onChange={(e) => setTask(e.target.value)}

      placeholder="Enter task"

    />

    <button onClick={add}>Add</button>

    <ul>

      {todos.map((t) => (

        <li key={t.id}>

          {t.task}

          <button onClick={() => del(t.id)}>✕</button>

        </li>

      ))}

    </ul>

  </div>

);

}
```

**index.js**

```
import React from 'react';

import ReactDOM from 'react-dom/client'; // Import the new API for React 18

import App from './App';

import './style.css';

const root = ReactDOM.createRoot(document.getElementById('root')); // Create the root

root.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>

);
```

**style.css**

```
/* Basic styling for the app */

body {

  font-family: Arial, sans-serif;

  background-color: #f0f4f8;

  margin: 0;

  padding: 0;

  display: flex;

  justify-content: center;

  align-items: center;

  height: 100vh;

  color: #333;

}
```

```
/* Container for the Todo app */  
  
div {  
  
  background-color: white;  
  
  border-radius: 10px;  
  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
  
  padding: 20px;  
  
  width: 300px;  
  
  text-align: center;  
  
}  
  
/* Heading styling */  
  
h2 {  
  
  color: #4CAF50;  
  
  font-size: 2rem;  
  
  margin-bottom: 15px;  
  
}  
  
/* Styling for input field */  
  
input {  
  
  padding: 8px;  
  
  width: 80%;  
  
  margin-bottom: 15px;  
  
  border: 1px solid #ccc;  
  
  border-radius: 5px;  
  
  font-size: 1rem;  
  
}
```

```
/* Add button styling */  
  
button {  
  padding: 8px 16px;  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;  
  font-size: 1rem;  
  transition: background-color 0.3s ease;  
}
```

```
/* Button hover effect */  
  
button:hover {  
  background-color: #45a049;  
}
```

```
/* List styling */  
  
ul {  
  list-style-type: none;  
  padding: 0;  
  margin: 0;  
}
```

```
/* Styling for each list item */  
  
li {  
  background-color: #f9f9f9;
```

```
border: 1px solid #ddd;
padding: 10px;
margin-bottom: 10px;
border-radius: 5px;
display: flex;
justify-content: space-between;
align-items: center;
font-size: 1rem;
}
```

```
/* Delete button (X) */
```

```
button {
  background-color: red;
  padding: 5px 10px;
  font-size: 1.2rem;
  border-radius: 50%;
  border: none;
  color: white;
  cursor: pointer;
}
```

```
/* Delete button hover effect */
```

```
button:hover {
  background-color: darkred;
}
```

**Backend code****server.js**

```
// server.js
```

```
const express = require('express');
```

```
const fs = require('fs');
```

```
const cors = require('cors');
```

```
const app = express();
```

```
const FILE = 'todos.json';
```

```
app.use(cors());
```

```
app.use(express.json());
```

```
app.get('/todos', (_, res) =>
```

```
  fs.readFile(FILE, 'utf8', (_, data) => res.json(JSON.parse(data || '[]'))
```

```
);
```

```
app.post('/todos', (req, res) =>
```

```
  fs.readFile(FILE, 'utf8', (_, data) => {
```

```
    const todos = JSON.parse(data || '[]');
```

```
    todos.push(req.body);
```

```
    fs.writeFile(FILE, JSON.stringify(todos), () => res.sendStatus(200));
```

```
  })
```

```
);
```

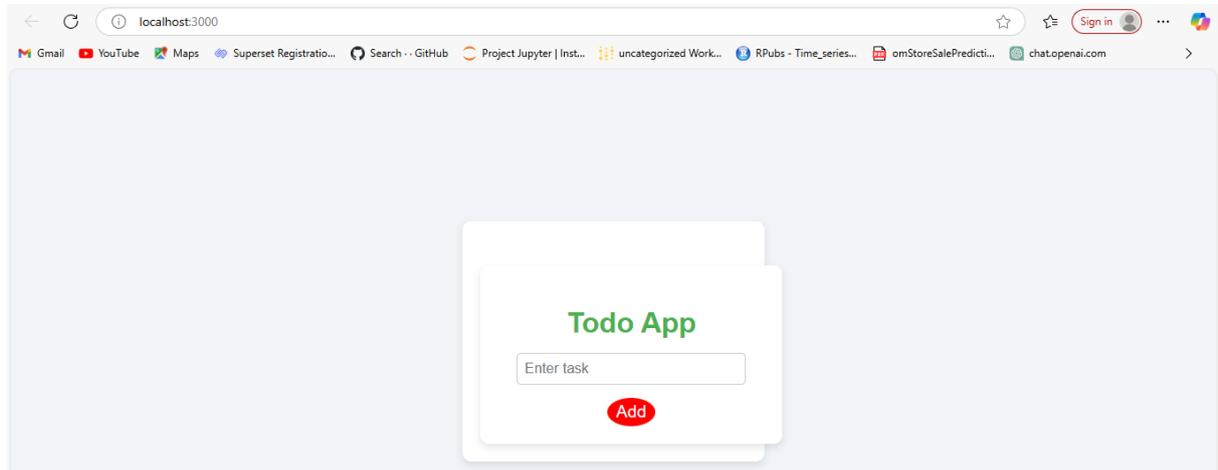
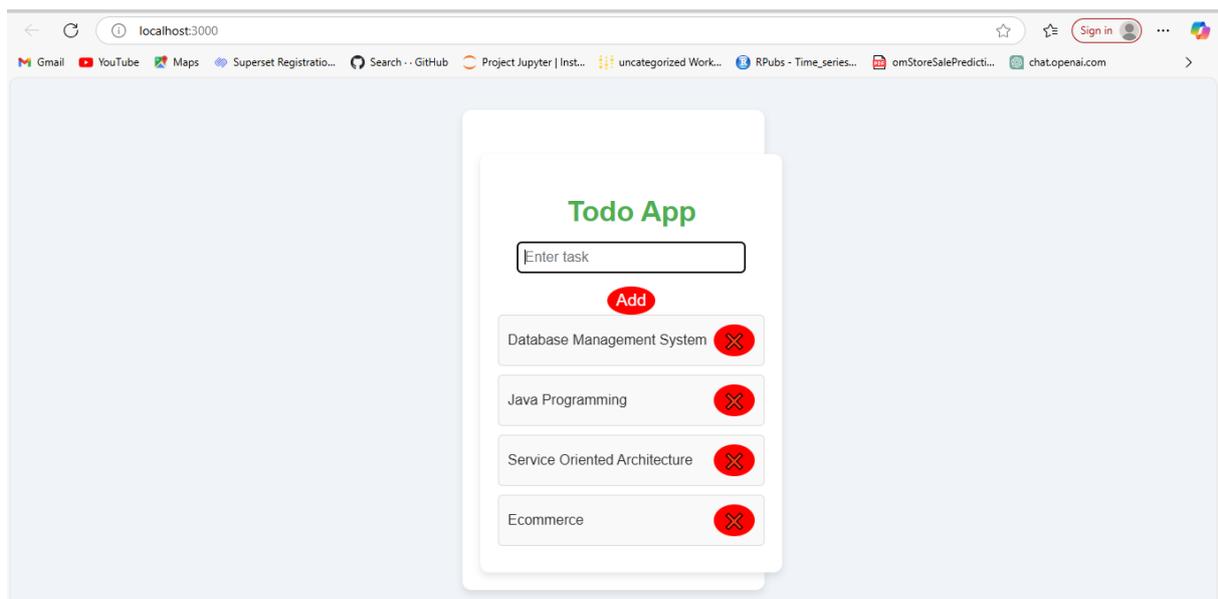
```
app.delete('/todos/:id', (req, res) =>
```

```
  fs.readFile(FILE, 'utf8', (_, data) => {
```

```
const todos = JSON.parse(data || '[]').filter(t => t.id !== req.params.id);  
fs.writeFile(FILE, JSON.stringify(todos), () => res.sendStatus(200));  
}  
);  
  
app.listen(5000, () => console.log('Server on http://localhost:5000'));
```

**todos.json**

```
[ ]
```

**OUTPUT:****VIEWING TODO APP****VIEWING AFTER ADDED TASKS IN TODO APP**

## Frontend

### index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <title>Auth App</title>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

### App.js

```
import { useState } from 'react';
import axios from 'axios';

// Set the base URL and ensure credentials (cookies) are sent with requests
axios.defaults.baseURL = 'http://localhost:5000';
axios.defaults.withCredentials = true;

export default function App() {
  const [email, setEmail] = useState("");
  const [pw, setPw] = useState("");
  const [msg, setMsg] = useState("");

  const signup = () => {
    if (!email || !pw) {
      setMsg('Please enter both email and password');
      return;
    }
  }
}
```

```
    }
    axios.post('/signup', { email, password: pw }).then(() => setMsg('Signed Up'));
  };

  const login = () => {
    if (!email || !pw) {
      setMsg('Please enter both email and password');
      return;
    }
    axios.post('/login', { email, password: pw }).then(() => setMsg('Logged In'));
  };

  const profile = () => {
    if (!email || !pw) {
      setMsg('Please log in first');
      return;
    }
    axios.get('/profile').then(res => setMsg(`User: ${res.data.id}`)).catch(() => setMsg('Please
log in first'));
  };

  return (
    <div>
      <input placeholder="Email" onChange={e => setEmail(e.target.value)} />
      <input placeholder="Password" type="password" onChange={e =>
setPw(e.target.value)} />
      <button onClick={signup}>Signup</button>
      <button onClick={login}>Login</button>
      <button onClick={profile}>Profile</button>
      <p>{msg}</p>
    </div>
  );
}
```

**index.js**

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';
import './style.css';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(<App />);
```

**style.css**

```
body {
  font-family: sans-serif;
  background: #f4f4f4;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}

div {
  background: white;
  padding: 2rem;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

input {
  display: block;
  margin: 10px 0;
  padding: 0.5rem;
  width: 200px;
}
```

```
button {
  margin-right: 10px;
  padding: 0.5rem 1rem;
  background: #007bff;
  color: white;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}
```

```
button:hover {
  background: #0056b3;
}
```

```
p {
  margin-top: 15px;
  font-weight: bold;
}
```

## **Backend**

### **Server.js**

```
const express = require('express');
const mongoose = require('mongoose');
const bcrypt = require('bcryptjs');
const cookie = require('cookie-parser');
const cors = require('cors');
const app = express();

// Connect to MongoDB
mongoose.connect('mongodb://localhost:27017/auth')
  .then(() => console.log('MongoDB connected'))
  .catch(err => console.error('MongoDB error:', err));
```

```
const User = mongoose.model('User', new mongoose.Schema({
  email: String,
  password: String
}));

// Middleware
app.use(cors({ origin: 'http://localhost:3000', credentials: true }));
app.use(express.json(), cookie());

// Helper function to validate email
const isValidEmail = (email) => /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/i.test(email);

// Sign Up Route
app.post('/signup', async (req, res) => {
  console.log('Received Signup request:', req.body); // Debugging line

  const { email, password } = req.body;

  // Check for empty fields
  if (!email || !password) {
    return res.status(400).send('Email and Password are required');
  }

  // Validate email format
  if (!isValidEmail(email)) {
    return res.status(400).send('Invalid email format');
  }

  const hash = await bcrypt.hash(password, 10);
  await User.create({ email, password: hash });
  res.send('OK');
});
```

```
// Login Route
app.post('/login', async (req, res) => {
  console.log('Received Login request:', req.body); // Debugging line

  const { email, password } = req.body;

  // Check for empty fields
  if (!email || !password) {
    return res.status(400).send('Email and Password are required');
  }

  const user = await User.findOne({ email });

  if (!user || !(await bcrypt.compare(password, user.password))) {
    return res.status(401).send('Invalid credentials');
  }

  res.cookie('user', user._id, { httpOnly: true, secure: false }).send('Logged in');
});

// Profile Route
app.get('/profile', async (req, res) => {
  console.log('Received Profile request with cookies:', req.cookies); // Debugging line

  const userId = req.cookies.user;

  // Check if user is logged in
  if (!userId) {
    return res.status(401).send('Unauthorized');
  }

  const user = await User.findById(userId);
  if (!user) return res.status(401).send('Unauthorized');
```

```
res.json({ id: user._id });
});

// Start server
app.listen(5000, () => console.log('Server running on http://localhost:5000'));

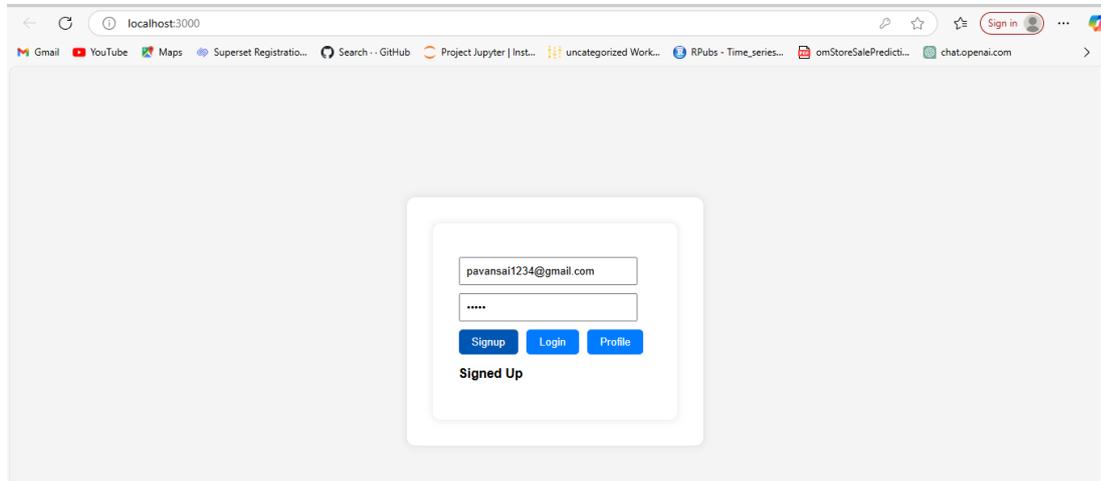
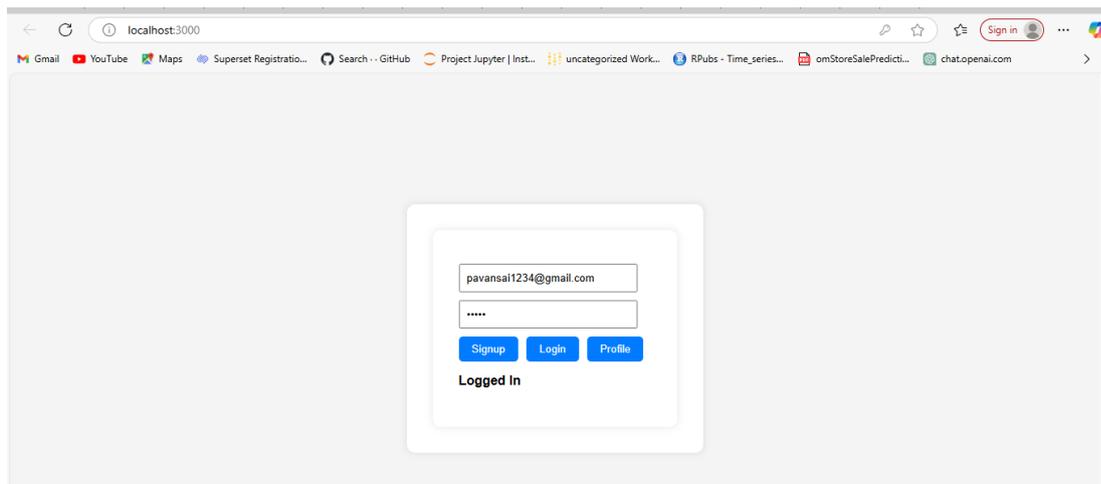
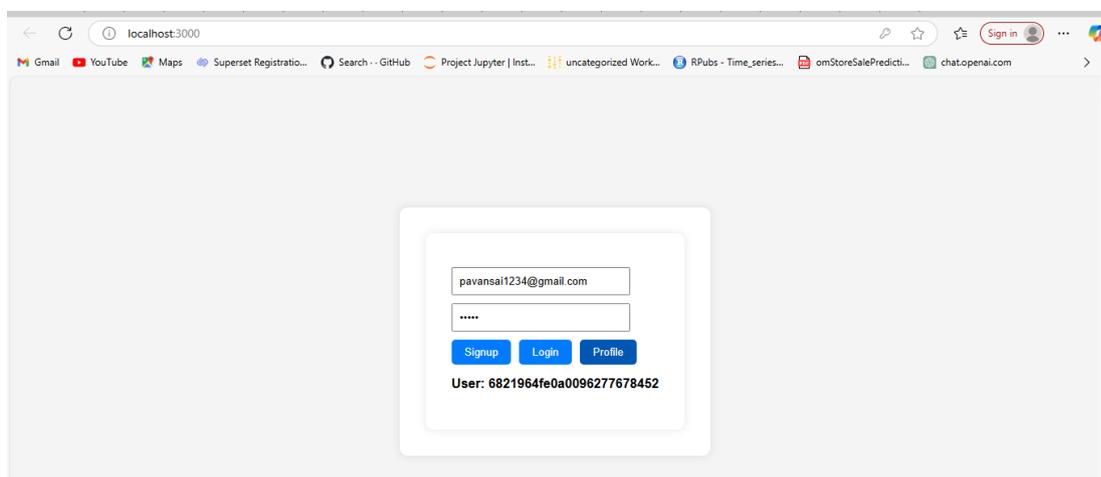
User.js

const mongoose = require('mongoose');

// Define User schema
const userSchema = new mongoose.Schema({
  email: {
    type: String,
    required: true,
    unique: true, // Ensure email is unique in the database
    lowercase: true,
    trim: true,
  },
  password: {
    type: String,
    required: true,
  },
});

// Create and export the User model
const User = mongoose.model('User', userSchema);

module.exports = User;
```

**OUTPUT:****SUCCESSFULLY SIGNED UP****AFTER LOGIN****VIEWING USER ID BY CLICKING THE PROFILE**

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Create Event</title>
</head>
<body>
  <h1>Create a New Event</h1>
  <form action="/events" method="POST">
    <label>
      Title:<br />
      <input type="text" name="title" required />
    </label>
    <br /><br />
    <label>
      Date:<br />
      <input type="date" name="date" required />
    </label>
    <br /><br />
    <label>
      Location:<br />
      <input type="text" name="location" required />
    </label>
    <br /><br />
    <label>
      Description:<br />
      <textarea name="description" rows="4" cols="30"></textarea>
    </label>
    <br /><br />
```

```
<button type="submit">Add Event</button>
</form>

<br />
<p><a href="events.html">View All Events</a></p>
</body>
</html>
```

### events.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <title>Event List</title>
  <style>
    table, th, td { border: 1px solid black; border-collapse: collapse; padding: 8px; }
    th { background: #eee; }
    #updateForm { display: none; margin-top: 20px; }
  </style>
</head>
<body>
  <h1>Events</h1>
  <table id="eventsTable">
    <thead>
      <tr>
        <th>Title</th><th>Date</th><th>Location</th><th>Description</th><th>Actions</th>
      </tr>
    </thead>
    <tbody></tbody>
  </table>

  <form id="updateForm">
    <h2>Update Event</h2>
```

```
<input type="hidden" name="id" />
<label>Title:<br /><input name="title" required /></label><br />
<label>Date:<br /><input type="date" name="date" required /></label><br />
<label>Location:<br /><input name="location" required /></label><br />
<label>Description:<br /><textarea name="description"></textarea></label><br /><br />
<button type="submit">Save</button>
<button type="button" id="cancelUpdate">Cancel</button>
</form>
```

```
<script>
const tableBody = document.querySelector('#eventsTable tbody');
const updateForm = document.getElementById('updateForm');

// Fetch and show events in table
async function loadEvents() {
  const res = await fetch('/events');
  const events = await res.json();

  tableBody.innerHTML = "";
  for (const e of events) {
    const tr = document.createElement('tr');
    tr.innerHTML = `
      <td>${e.title}</td>
      <td>${e.date}</td>
      <td>${e.location}</td>
      <td>${e.description}</td>
      <td>
        <button onclick="showUpdateForm('${e._id}', '${e.title}', '${e.date}', '${e.location}',
\`${e.description}\`)">Update</button>
        <button onclick="deleteEvent('${e._id}')">Delete</button>
      </td>
    `;
    tableBody.appendChild(tr);
  }
}
```

```
}

// Show the update form with event data
function showUpdateForm(id, title, date, location, description) {
  updateForm.style.display = 'block';
  updateForm.id.value = id;
  updateForm.title.value = title;
  updateForm.date.value = date;
  updateForm.location.value = location;
  updateForm.description.value = description;
}

// Hide update form
document.getElementById('cancelUpdate').onclick = () => {
  updateForm.style.display = 'none';
};

// Handle update form submit
updateForm.onsubmit = async (e) => {
  e.preventDefault();
  const id = updateForm.id.value;
  const data = new URLSearchParams(new FormData(updateForm));

  await fetch('/events/update/' + id, {
    method: 'POST',
    body: data,
    headers: { 'Content-Type': 'application/x-www-form-urlencoded' }
  });
  updateForm.style.display = 'none';
  loadEvents();
};

// Delete event
async function deleteEvent(id) {
```

```
    if (confirm('Delete this event?')) {
      await fetch('/events/delete/' + id, { method: 'POST' });
      loadEvents();
    }
  }
}
```

```
    loadEvents();
  </script>
</body>
</html>
```

### server.js

```
const express = require('express')
const mongoose = require('mongoose')
const bodyParser = require('body-parser')

mongoose.connect('mongodb://localhost:27017/eventsdb')
  .then(() => console.log('MongoDB connected'))
  .catch(err => console.error('MongoDB connection error:', err))

const Event = mongoose.model('Event', new mongoose.Schema({
  title: String,
  date: String,
  location: String,
  description: String,
}))

const app = express()
app.use(bodyParser.urlencoded({ extended: true }))
app.use(express.static('public'))

app.get('/', (req, res) => {
  res.sendFile(__dirname + '/public/index.html')
```

```
})
```

```
app.get('/test', (req, res) => res.send('Test OK'))
```

```
app.post('/events', async (req, res) => {
```

```
  await new Event(req.body).save()
```

```
  res.redirect('/events')
```

```
})
```

```
app.get('/events', async (req, res) => {
```

```
  const events = await Event.find()
```

```
  res.send(events)
```

```
})
```

```
app.post('/events/update/:id', async (req, res) => {
```

```
  await Event.findByIdAndUpdate(req.params.id, req.body)
```

```
  res.redirect('/events')
```

```
})
```

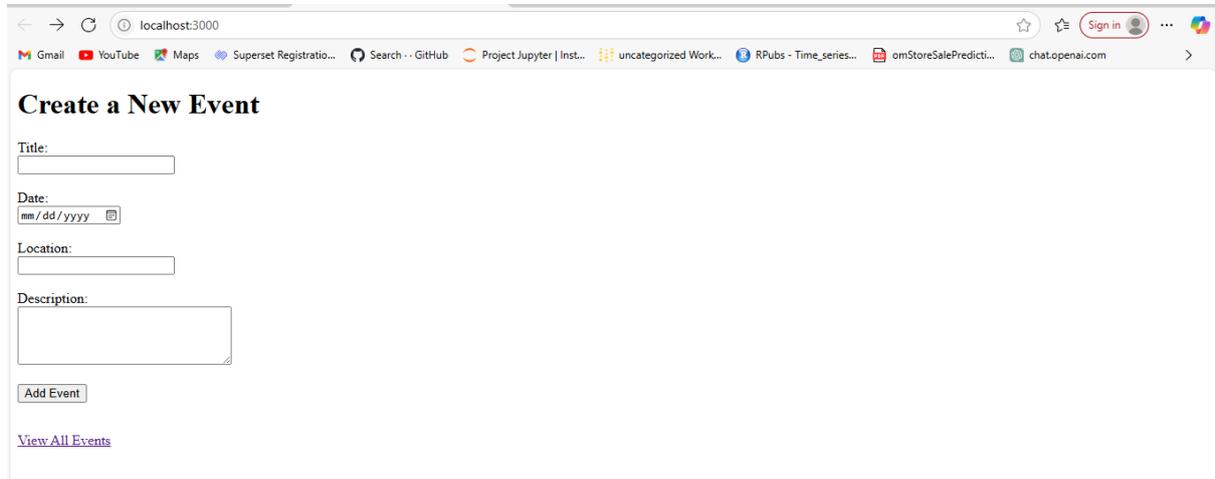
```
app.post('/events/delete/:id', async (req, res) => {
```

```
  await Event.findByIdAndDelete(req.params.id)
```

```
  res.redirect('/events')
```

```
})
```

```
app.listen(3000, () => console.log('Server running on http://localhost:3000'))
```

**OUTPUT:****CREATE A NEW EVENT**

localhost:3000

Sign in

### Create a New Event

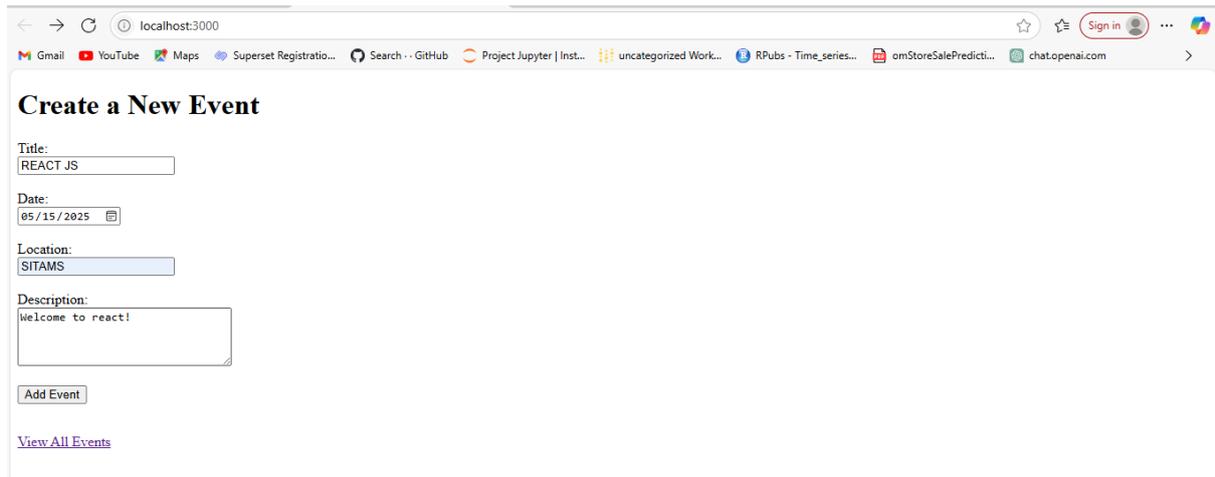
Title:

Date:

Location:

Description:

[View All Events](#)

**AFTER ENTERING DATA CLICK “ADD EVENT”**

localhost:3000

Sign in

### Create a New Event

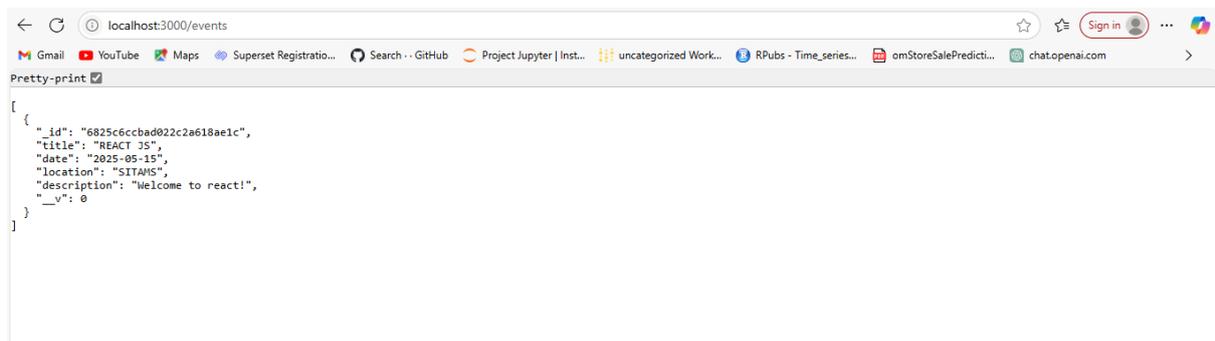
Title:

Date:

Location:

Description:

[View All Events](#)

**AFTER CLICKING THE ADD EVENT, VIEWING THE EVENT IN****“JSON FORMAT”**

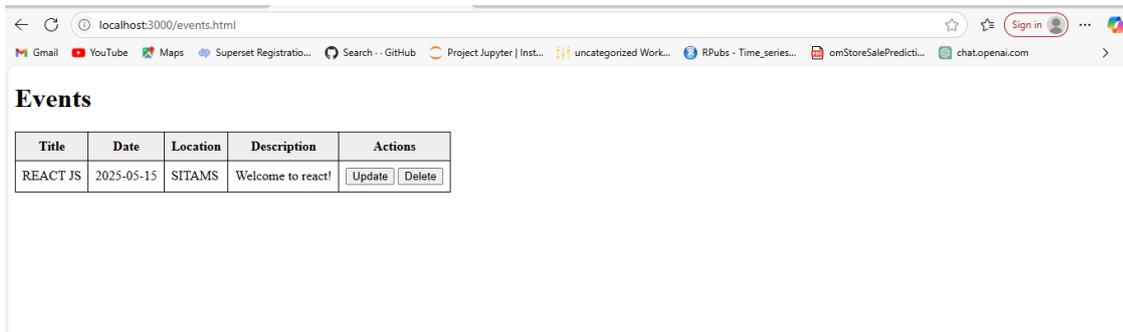
localhost:3000/events

Sign in

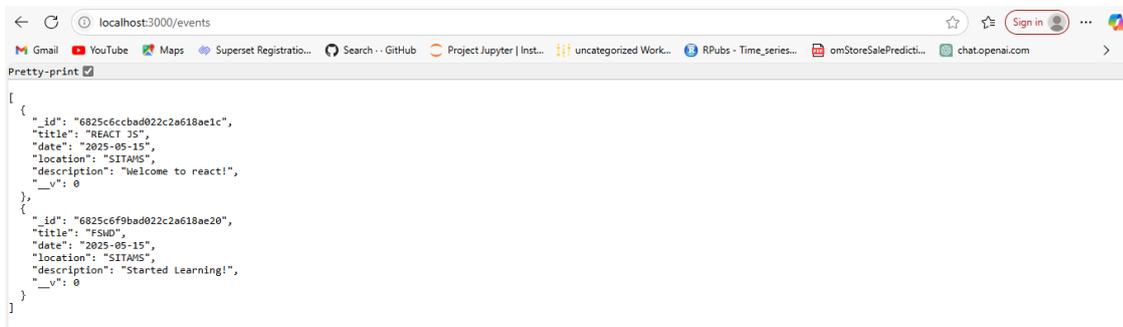
Pretty-print

```
[
  {
    "_id": "6825c6ccbad022c2a618ae1c",
    "title": "REACT JS",
    "date": "2025-05-15",
    "location": "SITAMS",
    "description": "welcome to react!",
    "_v": 0
  }
]
```

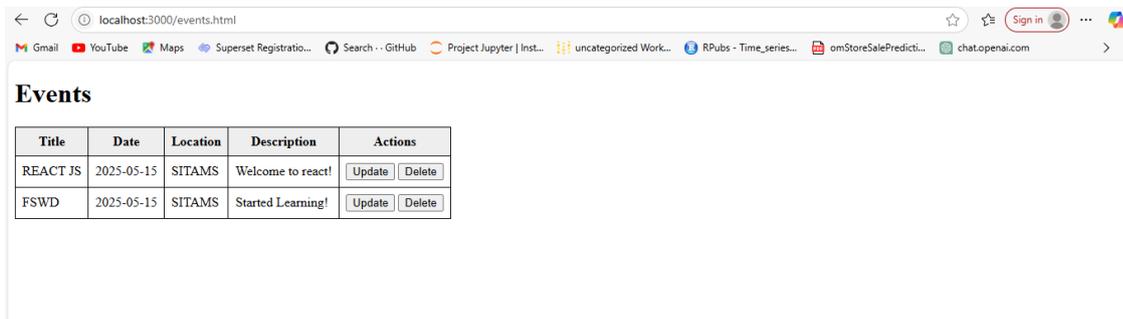
## VIEWING THE EVENTS LIST



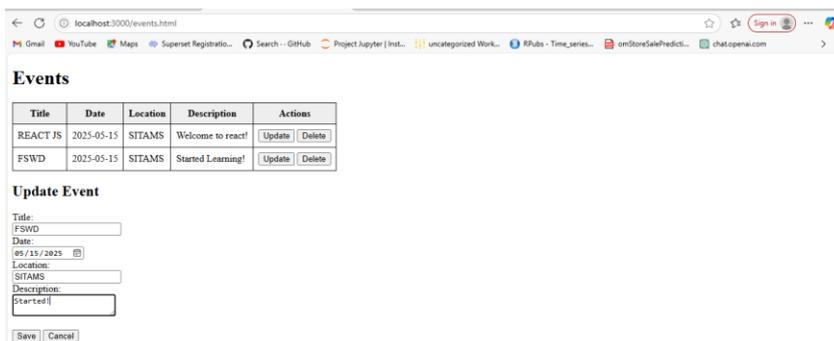
## AFTER ADDING ANOTHER DATA VIEWING THE MULTIPLE EVENTS IN “JSON FORMAT”



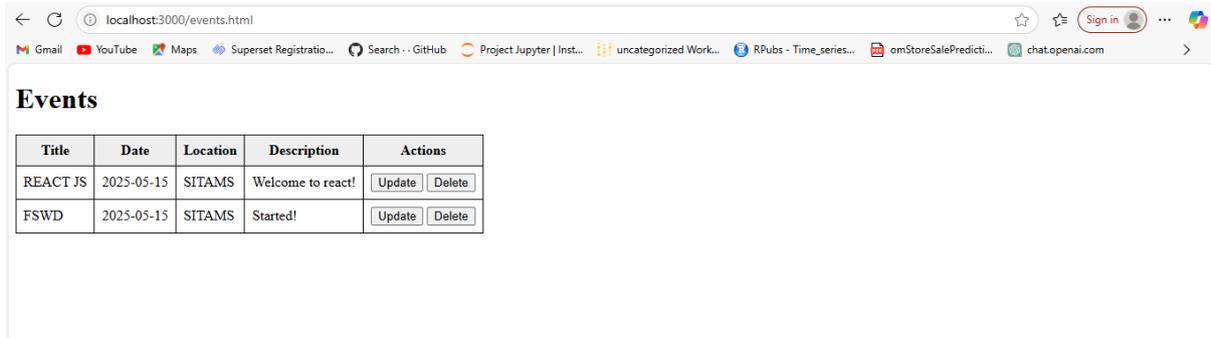
## VIEWING ALL EVENTS LIST



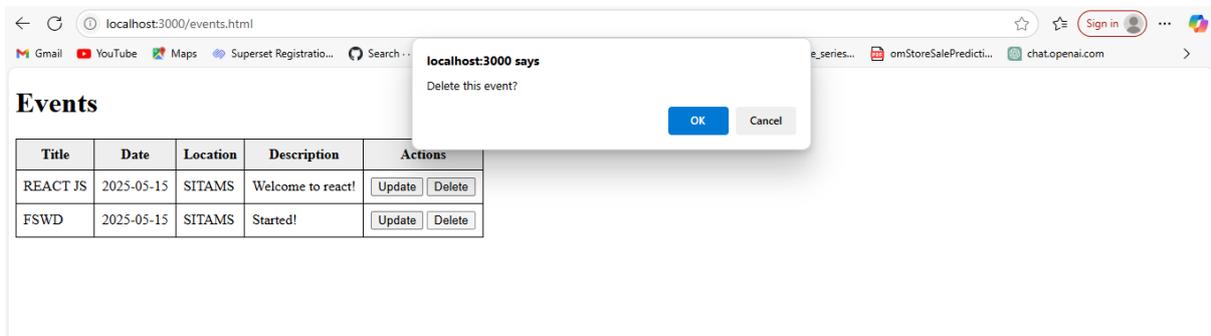
## UPDATING EVENT IN THE EVENTS LIST



### AFTER UPDATION VIEWING EVENTS LIST



### DELETING THE EVENT IN THE EVENTLIST



### AFTER DELETION VIEWING THE EVENTS LIST

