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Signature



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MAINACTIVITY.JAVA:

```
package com.example.keyboard;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@android:color/darker_gray"
    android:orientation="vertical">
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="@string/name"
        android:inputType="phone"
    />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="@string/subject"
    />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:gravity="top"
        android:hint="@string/message"
    />
```

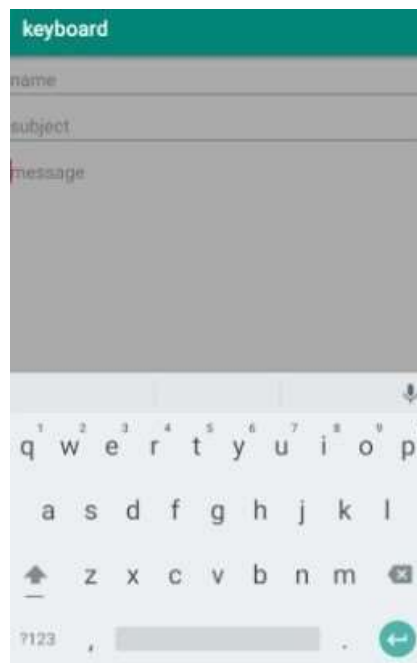
```
<Button
    android:layout_width="100dp"
    android:layout_height="wrap_content"
    android:layout_gravity="left"
    android:text="@string/send"/>

</LinearLayout>
```

STRINGS.XML:

```
<resources>
<string name="app_name">keyboard</string>
<string name="name">name</string>
<string name="subject">subject</string>
<string name="message">message</string>
<string name="send">send</string>
</resources>
```

OUTPUT:



RESULT:

Thus the program has been successfully executed.



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1) Android Studio:

Description:

Android Studio is the official integrated development environment (IDE) for Android app development. It provides a comprehensive set of tools for designing, developing, testing, and debugging Android applications. Android Studio is built on the popular IntelliJ IDEA, and it offers a rich and efficient environment for developers to create high-quality Android apps.

Key Features:

- **Layout Editor:** Android Studio includes a visual layout editor that allows developers to create and modify the layout of their app's user interface visually. This makes it easier to design responsive and user-friendly interfaces.
- **Code Editor:** It features a powerful code editor with advanced code completion, syntax highlighting, and debugging capabilities. Developers can write code in Java or Kotlin, and Android Studio provides excellent support for both languages.
- **Emulator:** Android Studio comes with a built-in emulator that enables developers to test their apps on various Android devices without the need for physical hardware. This is crucial for ensuring compatibility across different screen sizes and resolutions.
- **Performance Analysis Tools:** The IDE includes tools for profiling and analyzing the performance of Android applications, helping developers identify and optimize resource-intensive areas in their code.
- **Integration with Firebase:** Android Studio seamlessly integrates with Firebase, a platform for building and managing mobile applications, offering additional services such as authentication, real-time database, and cloud messaging.

2) React Native:

Description:

React Native is an open-source framework developed by Facebook for building mobile applications using JavaScript and React. It allows developers to create cross-platform apps with a single codebase, meaning that the same code can be used for both iOS and Android platforms. React Native is widely adopted for its efficiency and ability to deliver a native-like user experience.

Key Features:

- **Cross-Platform Development:** One of the main advantages of React Native is its ability to write code once and deploy it on both iOS and Android platforms. This significantly reduces development time and effort compared to building separate apps for each platform.
- **Hot Reloading:** React Native supports hot reloading, enabling developers to see the immediate results of code changes without recompiling the entire application. This feature speeds up the development process and enhances productivity.
- **Native Performance:** React Native allows developers to build parts of their application using native code, ensuring that critical components perform as well as apps developed using traditional native frameworks.
- **Large Community and Third-Party Libraries:** React Native has a vibrant and active community, which means ample resources, tutorials, and third-party libraries are available. Developers can leverage these resources to enhance their app development process.
- **Integration with Native Modules:** React Native supports integration with native modules, enabling developers to use platform-specific functionality when necessary. This is particularly useful for accessing device features not covered by React Native's core modules.



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MAINACTIVITY.JAVA:

```
package com.example.toast;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button button=(Button)findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View V) {
                Toast.makeText(getApplicationContext(),"Button3
clicked1",Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button"
        tools:layout_editor_absoluteX="135dp"
        tools:layout_editor_absoluteY="253dp"/>
</RelativeLayout>
```



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OUTPUT:

toast

BUTTON

Button3 clicked1

RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final EditText name = (EditText) findViewById(R.id.simpleEditText);
        Button submit = (Button) findViewById(R.id.displayText);
        submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (name.getText().toString().isEmpty()) {
                    Toast.makeText(getApplicationContext(), "Enter the Data",
Toast.LENGTH_SHORT).show();
                } else {
                    Toast.makeText(getApplicationContext(), name.getText().toString(),
Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/simpleEditText"
        android:layout_width="fill_parent"
        android:hint="EnterYourNameHere"
        android:padding="15dp"
        android:textColorHint="#000"
        android:layout_marginTop="100dp"
        android:layout_height="wrap_content"/>
```



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```
<Button  
    android:id="@+id/displayText"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:padding="10dp"  
    android:text="Display Text"  
    android:textStyle="bold"/>  
</RelativeLayout>
```

OUTPUT:



RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
package com.example.arithmeticoperations;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btnsum=findViewById(R.id.buttonsum);
        Button btnsub=findViewById(R.id.buttonsub);
        Button btndiv=findViewById(R.id.buttondiv);
        Button btnmul=findViewById(R.id.buttonmul);
        Button btnmod=findViewById(R.id.buttonmod);

        final EditText etv= findViewById(R.id.editText1);
        final EditText etv2= findViewById(R.id.editText2);
        final TextView result= findViewById(R.id.textView1);

        btnsum.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                int x=new Integer(etv.getText().toString());
                int y=new Integer(etv2.getText().toString());
                int sum=x+y;
                result.setText("The answer of "+x+"+"+y+"="+sum);
            }
        });

        btnsub.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                int x=new Integer(etv.getText().toString());
                int y=new Integer(etv2.getText().toString());
                int sub=x-y;
                result.setText("The answer of "+x+"-"+y+"="+sub);
            }
        });
    }
}
```



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```
    }  
    });  
  
    btndiv.setOnClickListener(new OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            int x=new Integer(etv.getText().toString());  
            int y=new Integer(etv2.getText().toString());  
            int div=x/y;  
            result.setText("The answer of "+x+"/"+y+"="+div);  
        }  
    });  
  
    btnmul.setOnClickListener(new OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            int x=new Integer(etv.getText().toString());  
            int y=new Integer(etv2.getText().toString());  
            int mul=x*y;  
            result.setText("The answer of "+x+"*"+y+"="+mul);  
        }  
    });  
  
    btnmod.setOnClickListener(new OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            int x=new Integer(etv.getText().toString());  
            int y=new Integer(etv2.getText().toString());  
            int mod=x%y;  
            result.setText("The answer of "+x+"%"+y+"="+mod);  
        }  
    });  
    }  
}
```



ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical">

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:text="Maths Function"/>

    <EditText
        android:id="@+id/editText1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number">
    <requestFocus/>
    </EditText>

    <EditText
        android:id="@+id/editText2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"/>

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/buttonsum"
        android:text="Sum/Addition"/>

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/buttonsub"
        android:text="Substraction"/>

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/buttondiv"
        android:text="Division"/>
```



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```
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/buttonmul"
    android:text="Multiplication"/>
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/buttonmod"
    android:text="Modular operation"/>
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:id="@+id/textView1"
    android:text="Result"
    android:textAppearance="?android:attr/textAppearanceLarge"/>

</LinearLayout>
```

OUTPUT:



RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
import android.os.Bundle; import
android.view.View; import
android.widget.Button; import
android.widget.EditText; import
android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity; public
class MainActivity extends AppCompatActivity {
    private EditText editTextName, editTextSubject, editTextMarks;
    private Button buttonAdd;
    private TextView textViewResult;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editTextName = findViewById(R.id.editTextName);
        editTextSubject =
        findViewById(R.id.editTextSubject); editTextMarks =
        findViewById(R.id.editTextMarks); buttonAdd =
        findViewById(R.id.buttonAdd); textViewResult =
        findViewById(R.id.textViewResult);
        buttonAdd.setOnClickListener(new View.OnClickListener()
        { @Override
        public void onClick(View view) {
            addMark();
        }
        });
    }
    private void addMark() {
        String name = editTextName.getText().toString(); String
        subject = editTextSubject.getText().toString(); String
        marksText = editTextMarks.getText().toString();
        if (name.isEmpty() || subject.isEmpty() || marksText.isEmpty()) {
            textViewResult.setText("Please enter all fields.");
            return;
        }
        double marks = Double.parseDouble(marksText);
        String result = processMarks(name, subject, marks);
        textViewResult.setText(result);
    }
    private String processMarks(String name, String subject, double marks) {
        return "Name: " + name + "\nSubject: " + subject + "\nMarks: " + marks;
    }
}
```



ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android=http://schemas.android.com/apk/res/android
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/editTextName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Student Name"/>

    <EditText
        android:id="@+id/editTextSubject"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Subject"/>

    <EditText android:id="@+id/editTextMarks"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"
        android:hint="Enter Marks"/>

    <Button
        android:id="@+id/buttonAdd"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Add Mark"/>

    <TextView
        android:id="@+id/textViewResult"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:paddingTop="16dp"/>

</LinearLayout>
```



OUTPUT:

STUDENT MARK LIST

Enter Student name : SHAHIL

Enter Subject Name : MAD

Enter Marks : 95

ADD MARKS

NAME : SHAHIL

SUBJECT : MAD

MARKS : 95

RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
package com.example.fragmentexample;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    tools:context=".MainActivity">

    <fragment
        android:layout_width="0px"
        android:layout_height="match_parent"
        android:id="@+id/fragment1"
        tools:ignore="Suspicious0dp"
        android:name="com.example.fragmentexample.Fragment1"
        android:layout_weight="1" />
    <fragment
        android:id="@+id/fragment2"
        android:name="com.example.fragmentexample.Fragment2"
        android:layout_width="0px"
        android:layout_height="match_parent"
        android:layout_weight="1"/>
</LinearLayout>
```

fragment_fragment1.xml

```
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
```



```
android:layout_height="match_parent"
android:background="#F5F5DC"
tools:context=".Fragment1">
<!-- TODO: Update blank fragment layout -->
<TextView
android:layout_width="match_parent"
android:layout_height="match_parent"
    android:text="@string/hello_blank_fragment" />
</FrameLayout>
```

fragment_fragment2.xml

```
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="#F0FFFF"tools:context=".Fragment2">
<!-- TODO: Update blank fragment layout -->
<TextView
android:layout_width="match_parent"
android:layout_height="match_parent"
    android:text="@string/hello_blank_fragment" />
</FrameLayout>
```

Fragment1.java

```
package example.com.fragmentexample;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
public class Fragment1 extends Fragment {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```



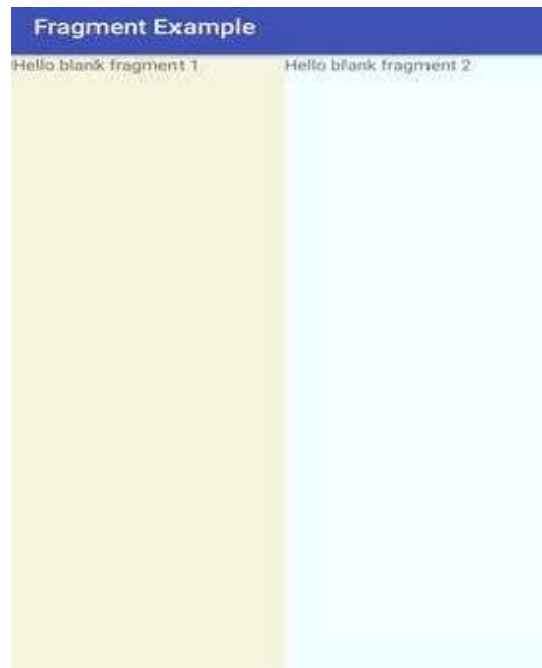
```
}  
  
@Override  
public View onCreateView(LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState) {  
    // Inflate the layout for this fragment  
    return inflater.inflate(R.layout.fragment_fragment1, container, false);  
}  
}
```

Fragment2.java

```
package example.com.fragmentexample;  
import android.os.Bundle;  
import android.support.v4.app.Fragment;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
public class Fragment2 extends Fragment {  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
    }  
    @Override  
    public View onCreateView(LayoutInflater inflater, ViewGroup container,  
        Bundle savedInstanceState) {  
        // Inflate the layout for this fragment  
        return inflater.inflate(R.layout.fragment_fragment2, container, false);  
    }  
}
```



OUTPUT:



RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
package com.example.calculator;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends Activity {
    Button button0, button1, button2, button3, button4, button5, button6, button7, button8,
    button9, buttonAdd, buttonSub, buttonDivision, buttonMul, button10, buttonC, buttonEqual;

    EditText crunchifyEditText;
    float mValueOne, mValueTwo;
    boolean crunchifyAddition, mSubtract, crunchifyMultiplication, crunchifyDivision;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        button0 = (Button) findViewById(R.id.button0);
        button1 = (Button) findViewById(R.id.button1);
        button2 = (Button) findViewById(R.id.button2);
        button3 = (Button) findViewById(R.id.button3);
        button4 = (Button) findViewById(R.id.button4);
        button5 = (Button) findViewById(R.id.button5);
        button6 = (Button) findViewById(R.id.button6);
        button7 = (Button) findViewById(R.id.button7);
        button8 = (Button) findViewById(R.id.button8);
        button9 = (Button) findViewById(R.id.button9);
        button10 = (Button) findViewById(R.id.button10);
        buttonAdd = (Button) findViewById(R.id.buttonadd);
        buttonSub = (Button) findViewById(R.id.buttonsub);
        buttonMul = (Button) findViewById(R.id.buttonmul);
        buttonDivision = (Button) findViewById(R.id.buttondiv);
        buttonC = (Button) findViewById(R.id.buttonC);
        buttonEqual = (Button) findViewById(R.id.buttoneql);
        crunchifyEditText = (EditText) findViewById(R.id.edt1);

        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
```



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```
        crunchifyEditText.setText(crunchifyEditText.getText() + "1");
    }
});
button2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "2");
    }
});

button3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "3");
    }
});

button4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "4");
    }
});

button5.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "5");
    }
});

button6.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "6");
    }
});

button7.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "7");
    }
});
```



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```
button8.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText()
        + "8");
    }
});

button9.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "9");
    }
});

button0.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        crunchifyEditText.setText(crunchifyEditText.getText() + "0");
    }
});

buttonAdd.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        if (crunchifyEditText == null) {
            crunchifyEditText.setText("");
        } else {
            mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
            crunchifyAddition = true;
            crunchifyEditText.setText(null);
        }
    }
});

buttonSub.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
        mSubtract = true;
        crunchifyEditText.setText(null);
    }
});
```



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```
buttonMul.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
        crunchifyMultiplication = true;
        crunchifyEditText.setText(null);
    }
});

buttonDivision.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        mValueOne = Float.parseFloat(crunchifyEditText.getText() + "");
        crunchifyDivision = true;
        crunchifyEditText.setText(null);
    }
});

buttonEqual.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        mValueTwo = Float.parseFloat(crunchifyEditText.getText() + "");

        if (crunchifyAddition == true) {
            crunchifyEditText.setText(mValueOne + mValueTwo + "");
            crunchifyAddition = false;
        }

        if (mSubtract == true) {
            crunchifyEditText.setText(mValueOne - mValueTwo + "");
            mSubtract = false;
        }

        if (crunchifyMultiplication == true) {
            crunchifyEditText.setText(mValueOne * mValueTwo + "");
            crunchifyMultiplication = false;
        }

        if (crunchifyDivision == true) {
            crunchifyEditText.setText(mValueOne / mValueTwo + "");
            crunchifyDivision = false;
        }
    }
});
```



```
buttonC.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        crunchifyEditText.setText("");  
    }  
});  
button10.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        crunchifyEditText.setText(crunchifyEditText.getText() + ".");  
    }  
});  
}  
  
}
```

ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:id="@+id/relative1"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    tools:context=".MainActivity">  
  
    <EditText  
        android:id="@+id/edt1"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content" />  
  
    <Button  
        android:id="@+id/button1"  
        style="?android:attr/buttonStyleSmall"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_alignEnd="@+id/button4"  
        android:layout_alignRight="@+id/button4"  
        android:layout_below="@+id/edt1"  
        android:layout_marginTop="94dp"  
        android:text="1" />
```



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```
<Button  
android:id="@+id/button2"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignTop="@+id/button1"  
android:layout_toLeftOf="@+id/button3"  
android:layout_toStartOf="@+id/button3"  
android:text="2" />
```

```
<Button  
android:id="@+id/button3"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignTop="@+id/button2"  
android:layout_centerHorizontal="true"  
android:text="3" />
```

```
<Button  
android:id="@+id/button4"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_below="@+id/button1"  
android:layout_toLeftOf="@+id/button2"  
android:text="4" />
```

```
<Button  
android:id="@+id/button5"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignBottom="@+id/button4"  
android:layout_alignLeft="@+id/button2"  
android:layout_alignStart="@+id/button2"  
android:text="5" />
```

```
<Button  
android:id="@+id/button6"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/button3"  
android:layout_alignStart="@+id/button3"  
android:layout_below="@+id/button3"  
android:text="6" />
```



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```
<Button  
android:id="@+id/button7"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_below="@+id/button4"  
android:layout_toLeftOf="@+id/button2"  
android:text="7" />
```

```
<Button  
android:id="@+id/button8"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/button5"  
android:layout_alignStart="@+id/button5"  
android:layout_below="@+id/button5"  
android:text="8" />
```

```
<Button  
android:id="@+id/button9"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/button6"  
android:layout_alignStart="@+id/button6"  
android:layout_below="@+id/button6"  
android:text="9" />
```

```
<Button  
android:id="@+id/buttonadd"  
style="?android:attr/buttonStyleSmall"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignEnd="@+id/edt1"  
android:layout_alignRight="@+id/edt1"  
android:layout_alignTop="@+id/button3"  
android:layout_marginLeft="46dp"  
android:layout_marginStart="46dp"  
android:layout_toRightOf="@+id/button3"  
android:text="+" />
```



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```
<Button
android:id="@+id/buttonsub"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignEnd="@+id/buttonadd"
android:layout_alignLeft="@+id/buttonadd"
android:layout_alignRight="@+id/buttonadd"
android:layout_alignStart="@+id/buttonadd"
android:layout_below="@+id/buttonadd"
android:text="-" />
```

```
<Button
android:id="@+id/buttonmul"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/buttonsub"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignStart="@+id/buttonsub"
android:layout_below="@+id/buttonsub" android:text="*"
/>
```

```
<Button
android:id="@+id/button10"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/button7"
android:layout_toLeftOf="@+id/button2"
android:text="." />
```



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```
<Button
android:id="@+id/button0"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/button8"
android:layout_alignStart="@+id/button8"
android:layout_below="@+id/button8"
android:text="0" />
```

```
<Button
android:id="@+id/buttonC"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/button9"
android:layout_alignStart="@+id/button9"
android:layout_below="@+id/button9"
android:text="C" />
```

```
<Button
android:id="@+id/buttondiv"
style="?android:attr/buttonStyleSmall"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignEnd="@+id/buttonmul"
android:layout_alignLeft="@+id/buttonmul"
android:layout_alignRight="@+id/buttonmul"
android:layout_alignStart="@+id/buttonmul"
android:layout_below="@+id/buttonmul"
android:text="/" />
```

```
<Button
android:id="@+id/buttoneql"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignEnd="@+id/buttondiv"
android:layout_alignLeft="@+id/button10"
android:layout_alignRight="@+id/buttondiv"
android:layout_alignStart="@+id/button10"
android:layout_below="@+id/button0p"
android:layout_marginTop="37dp"
android:text="=" />
</RelativeLayout>
```



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OUTPUT:

2.0

1	2	3	+
4	5	6	-
7	8	9	*
.	0	C	/
=			

RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
package com.example.departments;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;

public class MainActivity extends AppCompatActivity {
    ListView listView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        listView = (ListView) findViewById(R.id.list);
        String[] values = new String[]{" Marketing","Production","finance"
        };

        ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
            android.R.layout.simple_list_item_1, android.R.id.text1, values);

        listView.setAdapter(adapter);

        listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            public void onItemClick(AdapterView<?> parent, View view,
            int position, long id) {
                if (position == 0) {
                    Intent myIntent = new Intent(view.getContext(), ListItemActivity1.class);
                    startActivityForResult(myIntent, 0);
                }

                if (position == 1) {
                    Intent myIntent = new Intent(view.getContext(), ListItemActivity2.class);
                    startActivityForResult(myIntent, 0);
                }
            }
        });
    }
}
```



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```
    }

    if (position == 2) {
        Intent myIntent = new Intent(view.getContext(), ListItemActivity1.class);
        startActivityForResult(myIntent, 0);
    }

    if (position == 3) {
        Intent myIntent = new Intent(view.getContext(), ListItemActivity2.class);
        startActivityForResult(myIntent, 0);
    }

    if (position == 4) {
        Intent myIntent = new Intent(view.getContext(), ListItemActivity1.class);
        startActivityForResult(myIntent, 0);
    }

    if (position == 5) {
        Intent myIntent = new Intent(view.getContext(), ListItemActivity2.class);
        startActivityForResult(myIntent, 0);
    }

    if (position == 6) {
        Intent myIntent = new Intent(view.getContext(), ListItemActivity1.class);
        startActivityForResult(myIntent, 0);
    }

    if (position == 7) {
        Intent myIntent = new Intent(view.getContext(), ListItemActivity2.class);
        startActivityForResult(myIntent, 0);
    }
    }
    });
}
```



ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:background="#fff"
    android:orientation="vertical"
    tools:context=".MainActivity"
    android:weightSum="1">

    <ListView
        android:id="@+id/list"
        android:layout_height="wrap_content"
        android:layout_width="match_parent">
    </ListView>
</LinearLayout>
```

MANIFEST FILE:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.departments">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

        <activity android:name=".ListItemActivity1">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```



```
<activity android:name=".ListItemActivity2">
<intent-filter>
<action android:name="android.intent.action.MAIN" />
</intent-filter>
</activity>
</application>
</manifest>
```

LISTITEMACTIVITY1.JAVA

```
package com.example.departments;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class ListItemActivity1 extends AppCompatActivity {
    ListView listView;
    TextView textView;
    String[] listItem;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.ist_item_activity_1);

        listView=(ListView)findViewById(R.id.listView);
        textView=(TextView)findViewById(R.id.textview);
        listItem = getResources().getStringArray(R.array.array_technology);
        final ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
            android.R.layout.simple_list_item_1, android.R.id.text1, listItem);
        listView.setAdapter(adapter);
        listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int position, long l) {
                // TODO Auto-generated method stub
                String value=adapter.getItem(position);
                Toast.makeText(getApplicationContext(),value, Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```



LISTITEMACTIVITY1.XML

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textview"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Marketing List"
        android:textSize="20sp" />

    <ListView
        android:id="@+id/listView"
        android:layout_width="match_parent"
        android:layout_height="fill_parent"
    />

</LinearLayout>
```

MYLIST.XML

```
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Medium Text"
    android:textStyle="bold"
    android:textAppearance="?android:attr/textAppearanceMedium"
    android:layout_marginLeft="10dp"
    android:layout_marginTop="5dp"
    android:padding="2dp"
    android:textColor="#4d4d4d"
/>
```



LISTITEMACTIVITY2.JAVA

```
package com.example.departments;

import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class ListItemActivity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.list_item_activity_2);
    }
}
```

LISTITEMACTIVITY2.XML

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Activity 2"
        android:textSize="40sp" />
</LinearLayout>
```

STRING.XML

```
<resources>
<string name="app_name">departments</string>

<string-array name="array_technology">
<item>Account-based marketing</item>
<item>Affiliate marketing</item>
<item>Affinity marketing</item>
<item>Agile marketing</item>
<item>Alliance marketing</item>
<item>Ambush marketing</item>
<item>Article marketing</item>

</string-array>
</resources>
```



OUTPUT:

departments
Marketing
production
finance

RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
package com.example.listitemdialogue;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends Activity implements View.OnClickListener {
    private Button mDoneButton;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        mDoneButton=findViewById(R.id.button);
        mDoneButton.setOnClickListener(this);
    }

    @Override
    public void onClick(View v) {
        final CharSequence [] items={
            "Android","Oreo","Pie"
        };
        AlertDialog.Builder builder=new AlertDialog.Builder(this);
        builder.setTitle("Make your selection");
        builder.setItems(items, new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int item) {
                mDoneButton.setText(items[item]);
            }
        });
        AlertDialog alert=builder.create();
        alert.show();
    }
}
```

ACTIVITY_MAIN:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
```



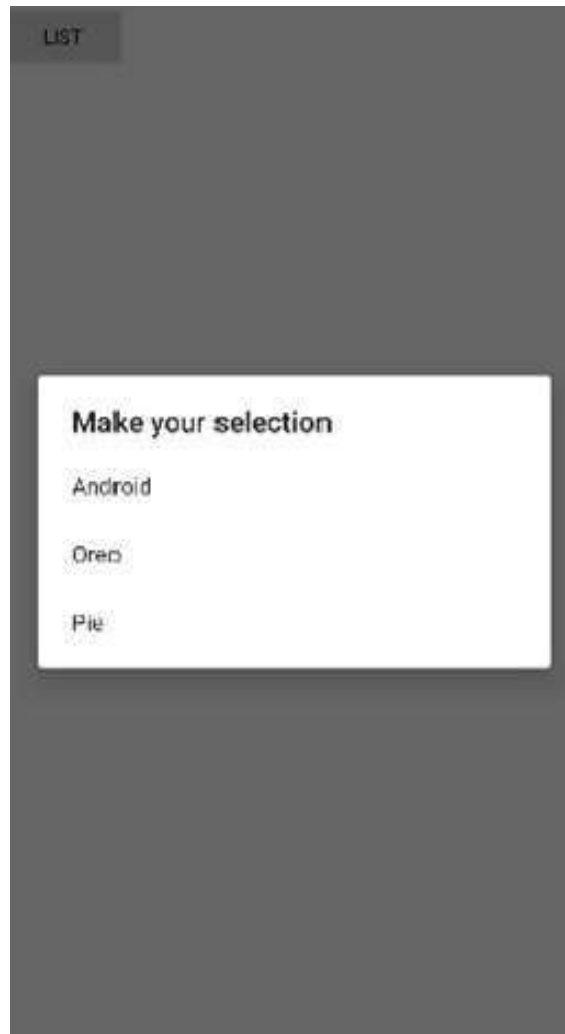
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```
tools:context=".MainActivity">
```

```
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/button"  
    android:text="List"  
    tools:layout_editor_absoluteX="302dp"  
    tools:layout_editor_absoluteY="235dp"/>
```

```
</RelativeLayout>
```

OUTPUT:



RESULT:

Thus the program has been successfully executed.



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MAINACTIVITY.JAVA:

```
package com.example.servicetoast;
import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity implements View.OnClickListener{
    Button buttonStart, buttonStop,buttonNext;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        buttonStart = findViewById(R.id.buttonStart);
        buttonStop = findViewById(R.id.buttonStop);
        buttonNext = findViewById(R.id.buttonNext);
        buttonStart.setOnClickListener(this);
        buttonStop.setOnClickListener(this);
        buttonNext.setOnClickListener(this);
    }
    public void onClick(View src) {
        switch (src.getId()) {
            case R.id.buttonStart:
                startService(new Intent(this, MyService.class));
                break;
            case R.id.buttonStop:
                stopService(new Intent(this, MyService.class));
                break;
            case R.id.buttonNext:
                Intent intent=new Intent(this,NextPage.class);
                startActivity(intent);
                break;
        }
    }

    private class MyService {
    }

    private class NextPage {
    }
}
```



MYSERVICE.JAVA

```
package com.example.task11;
import android.app.Service;
import android.content.Intent;
import android.media.MediaPlayer;
import android.os.IBinder;
import android.support.annotation.Nullable;
import android.widget.Toast;

public class MyService extends Service {
    MediaPlayer myPlayer;
    @Nullable
    @Override
    public IBinder onBind(Intent intent) {
        return null;
    }
    @Override
    public void onCreate() {
        Toast.makeText(this, "Service Created", Toast.LENGTH_LONG).show();
        myPlayer = MediaPlayer.create(this, R.drawable.ic_launcher_background);
        myPlayer.setLooping(false); // Set looping
    }
    @Override
    public void onStart(Intent intent, int startid) {
        Toast.makeText(this, "Service Started", Toast.LENGTH_LONG).show();
        myPlayer.start();
    }
    @Override
    public void onDestroy() {
        Toast.makeText(this, "Service Stopped", Toast.LENGTH_LONG).show();
        myPlayer.stop();
    }
}
```

androidmanifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.task11">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Task11">
```



```
<activity
android:name=".MainActivity"
android:exported="true">
<intent-filter>
<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
</activity>
</application>

</manifest>
```

NEXTPAGE.JAVA

```
package com.example.servicetoast;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;

public class NextPage extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_next);
    }
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/buttonStart"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="74dp"
```



```
android:text="Start Service" />
<Button
android:id="@+id/buttonStop"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:layout_centerVertical="true"
android:text="Stop Service" />
<Button
android:id="@+id/buttonNext"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentBottom="true"
android:layout_centerHorizontal="true"
android:layout_marginBottom="63dp"
android:text="Next Page" />
</RelativeLayout>
```

Activity_next.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
>
<TextView
android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginEnd="8dp"
android:layout_marginStart="8dp"
android:layout_marginTop="200dp"
android:text="Next Page"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
```



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OUTPUT:

servicetoast

START SERVICE

STOPSERVICE

NEXTPAGE

RESULT:

Thus the program has been successfully executed.



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TASK NO :

DATE :

--



MAINACTIVITY.JAVA:

```
package com.example.intent;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends Activity {
    EditText uname;
    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        uname=(EditText)findViewById(R.id.editText1);
        btn=(Button)findViewById(R.id.button1);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i=new Intent(MainActivity.this,Sec.class);
                i.putExtra("USERNAME",uname.getText().toString());
                startActivity(i);
            }
        });
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu){
        getMenuInflater().inflate(R.menu.main,menu);
        return true;
    }
}
```



SEC.java

```
package com.example.intent;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.widget.TextView;

public class Sec extends Activity {
    TextView txtname;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_sec);
        txtname=(TextView)findViewById(R.id.textView1);
        Intent i1=getIntent();
        txtname.setText(i1.getStringExtra("USERNAME"));
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu){
        getMenuInflater().inflate(R.menu.main,menu);
        return true;
    }
}
```

//activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="71dp"
        android:ems="10"/>
    <requestFocus/>
```



```
<Button  
android:id="@+id/button1"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_centerHorizontal="true"  
android:layout_centerVertical="true"  
android:text="Send"/>  
  
</RelativeLayout>
```

ACTIVITY_SEC.XML

```
<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
xmlns:app="http://schemas.android.com/apk/res-auto"  
xmlns:tools="http://schemas.android.com/tools"  
android:layout_width="match_parent"  
android:layout_height="match_parent"  
tools:context=".MainActivity">  
  
    <TextView  
        android:id="@+id/textView1"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_alignParentTop="true"  
        android:layout_centerHorizontal="true"  
        android:layout_marginTop="176dp"  
        android:text="TextView"/>  
  
</RelativeLayout>
```



Output:



RESULT:

Thus the program has been successfully executed.