

### Activity\_main.XML

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

```
<LinearLayout
```

```
    xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:orientation="vertical"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:layout_margin="20dp">
```

```
    <LinearLayout
```

```
        android:id="@+id/linearLayout1"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_margin="20dp">
```

```
    <EditText
```

```
        android:id="@+id/editText1"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_weight="1"
```

```
        android:inputType="numberDecimal"
```

```
        android:textSize="20sp" />
```

```
    <EditText
```

```
        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:layout_weight="1"

        android:inputType="numberDecimal"

        android:textSize="20sp" />
</LinearLayout>
```

```
<LinearLayout

    android:id="@+id/linearLayout2"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:layout_margin="20dp">
```

```
<Button

    android:id="@+id/Add"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:layout_weight="1"

    android:text="+"

    android:textSize="30sp"/>
```

```
<Button
```

```
android:id="@+id/Sub"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:text="-"

android:textSize="30sp"/>
```

<Button

```
android:id="@+id/Mul"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:text="**"

android:textSize="30sp"/>
```

<Button

```
android:id="@+id/Div"
android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:text="/"

android:textSize="30sp"/>
```

```
</LinearLayout>
```

```
<TextView
```

```
    android:id="@+id/textView"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="50dp"
```

```
    android:text="Answer is"
```

```
    android:textSize="30sp"
```

```
    android:gravity="center"/>
```

```
</LinearLayout>
```

### **MainActivity.java**

```
package com.example.Calculator;
```

```
import android.os.Bundle;
```

```
import android.support.v7.app.AppCompatActivity;
```

```
import android.text.TextUtils;
```

```
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 implements OnClickListener  
{
```

```
    //Defining the Views
```

```
    EditText Num1;
```

```
    EditText Num2;
```

```
    Button Add;
```

```
    Button Sub;
```

```
    Button Mul;
```

```
Button Div;  
TextView Result;
```

```
@Override  
public void onCreate(Bundle savedInstanceState)  
{  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
  
    //Referring the Views  
    Num1 = (EditText) findViewById(R.id.editText1);  
    Num2 = (EditText) findViewById(R.id.editText2);  
    Add = (Button) findViewById(R.id.Add);  
    Sub = (Button) findViewById(R.id.Sub);  
    Mul = (Button) findViewById(R.id.Mul);  
    Div = (Button) findViewById(R.id.Div);  
    Result = (TextView) findViewById(R.id.textView);  
  
    // set a listener  
    Add.setOnClickListener(this);  
    Sub.setOnClickListener(this);  
    Mul.setOnClickListener(this);  
    Div.setOnClickListener(this);  
}
```

```
@Override  
public void onClick (View v)  
{  
  
    float num1 = 0;  
    float num2 = 0;  
    float result = 0;  
    String oper = "";  
  
    // check if the fields are empty  
    if (TextUtils.isEmpty(Num1.getText().toString()) ||  
        TextUtils.isEmpty(Num2.getText().toString()))  
        return;  
  
    // read EditText and fill variables with numbers  
    num1 = Float.parseFloat(Num1.getText().toString());  
    num2 = Float.parseFloat(Num2.getText().toString());  
  
    // defines the button that has been clicked and performs the corresponding operation
```

```

case R.id.Mul:
    oper = "*";
    result = num1 * num2;
    break;
case R.id.Div:
    oper = "/";
    result = num1 / num2;
    break;
default:
    break;
}
// form the output line
Result.setText(num1 + " " + oper + " " + num2 + " = " + result);
}
}

```

**Output:**

