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:id="@+id/editText2"

            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**

JAVA CODE

package com.example.devang.exno3;

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

        // write operation into oper, we will use it later for output

        switch (v.getId())

        {

            case R.id.Add:

                oper = "+";

                result = num1 + num2;

                break;

            case R.id.Sub:

                oper = "-";

                result = num1 - num2;

                break;

            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);

    }

}