PROGRAM NO:4 DATE:26/08/22

AIM:Implementing basic arithmetic operationsof a simple calculator

**xml**

*<?*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:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter the 1st number"/>  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter the 2st number"/>  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bt1"  
 android:text="ADD"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bt2"  
 android:text="SUB"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bt3"  
 android:text="MUL"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bt4"  
 android:text="DIV"/>  
  
 </LinearLayout>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tv1"/>  
</LinearLayout>

Java

package com.example.calculator;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
 Button b, bb, bc, bd;  
 EditText et1, et2;  
 TextView tv1;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 b = findViewById(R.id.*bt1*);  
 bb = findViewById(R.id.*bt2*);  
 bc = findViewById(R.id.*bt3*);  
 bd = findViewById(R.id.*bt4*);  
 et1 = findViewById(R.id.*et1*);  
 et2 = findViewById(R.id.*et2*);  
 tv1 = findViewById(R.id.*tv1*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Double a1 = Double.*parseDouble*(et1.getText().toString());  
 Double a2 = Double.*parseDouble*(et2.getText().toString());  
 Double r = a1 + a2;  
 tv1.setText("Result is " + String.*valueOf*(r));  
  
 }  
 });  
 bb.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Double a1 = Double.*parseDouble*(et1.getText().toString());  
 Double a2 = Double.*parseDouble*(et2.getText().toString());  
 Double r = a1 - a2;  
 tv1.setText("Result is " + String.*valueOf*(r));  
 }  
  
  
 });  
 bc.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Double a1 = Double.*parseDouble*(et1.getText().toString());  
 Double a2 = Double.*parseDouble*(et2.getText().toString());  
 Double r = a1 \* a2;  
 tv1.setText("Result is " + String.*valueOf*(r));  
  
 }  
 });  
 bd.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Double a1 = Double.*parseDouble*(et1.getText().toString());  
 Double a2 = Double.*parseDouble*(et2.getText().toString());  
 Double r = a1 / a2;  
 tv1.setText("Result is " + String.*valueOf*(r));  
  
 }  
 });  
 }

}

