**PROGRAM NO:4 DATE:23-08-2022**

**AIM:** Implementing basic arithematic operation of a simple calculator

**PROGRAM CODE:**

**Activity.xml**

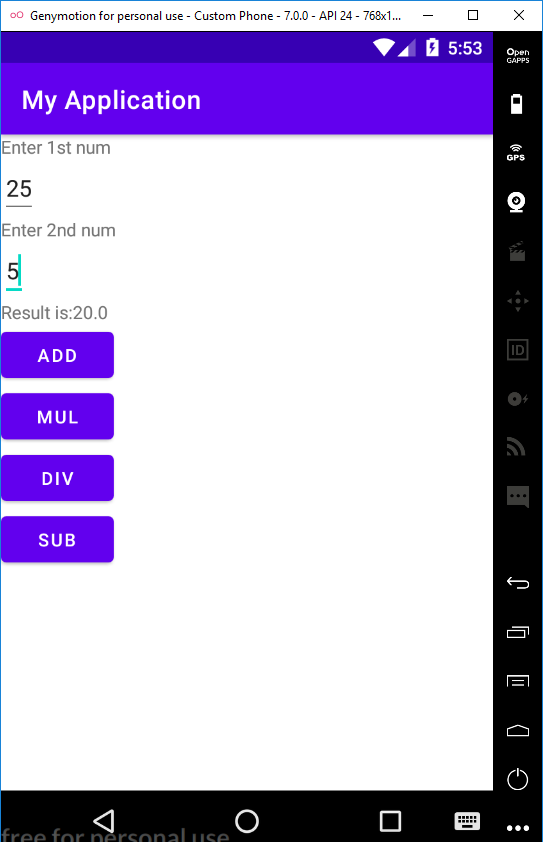
*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter 1st num"  
 />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/et1"  
  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter 2nd num"  
 />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/et2"  
  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tv1"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/b1"  
 android:text="ADD"  
  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/b2"  
 android:text="MUL"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/b3"  
 android:text="DIV"  
  
  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/b4"  
 android:text="SUB"  
 />  
  
  
  
  
  
</LinearLayout>

Mainactivity.java

package com.example.myapplication;  
  
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 {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Button b1=findViewById(R.id.*b1*);  
 Button b2=findViewById(R.id.*b2*);  
 Button b3=findViewById(R.id.*b3*);  
 Button b4=findViewById(R.id.*b4*);  
 EditText et1=findViewById(R.id.*et1*);  
 EditText et2=findViewById(R.id.*et2*);  
 TextView tv1=findViewById(R.id.*tv1*);  
 b1.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));  
 }  
 });  
 b2.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));  
  
 }  
 });  
 b3.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));  
  
 }  
 });  
 b4.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));  
  
 }  
 });  
  
  
 }

}

**OUTPUT:**

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