**PROGRAM 5 Date:18/1/2022**

**AIM:** Implementing basic arithmetic operations of a simple calculator.

# PROGRAM CODE:

**activity.xml**

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

<LinearLayout xmlns:android=["http://schemas.android.com/](http://schemas.android.com/apk/res/android)a[pk/res/android"](http://schemas.android.com/apk/res/android) xmlns:app=["http://sc](http://schemas.android.com/apk/res-auto)h[emas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools=["http://schemas.android.com/tool](http://schemas.android.com/tools)s" 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 1st nmbr" />

<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 2st nmbr" />

<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/b1" android:text="ADD"/>

<Button

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

android:id="@+id/b2" android:text="SUB"/>

<Button

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:id="@+id/b3" android:text="MUL"/>

<Button

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:id="@+id/b4" android:text="DIV"/>

</LinearLayout>

<TextView android:id="@+id/tv1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"/>

</LinearLayout>

# mainactivity.java

package com.example.myapplication6;

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.*b1*); bb=findViewById(R.id.*b2*); bc=findViewById(R.id.*b3*); bd=findViewById(R.id.*b4*); 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));

}

});

}

}

**RESULT:** Program compiled successfully and output verified.

**OUTPUT:**

