**EXP 6**

Implement arithmetic operations of a simple calculator

Activity\_main.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 First 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 second 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:id="@+id/b1"  
 android:text="ADD"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
 <Button  
 android:id="@+id/b2"  
 android:text="SUB"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
 <Button  
 android:id="@+id/b3"  
 android:text="MUL"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
 <Button  
 android:id="@+id/b4"  
 android:text="DIV"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
 </LinearLayout>  
 <TextView  
 android:id="@+id/tv1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
  
</LinearLayout>

Mainactivity.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.*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));  
  
 }  
 });  
 }}







