Calculator

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;  
  
public class MainActivity extends AppCompatActivity {  
 Button b1,b2,b3,b4,b5;  
 EditText e1,e2,e3;  
 String n1,n2;  
 int a,b,op;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 b1=(Button) findViewById(R.id.*b1*);  
 b2=(Button) findViewById(R.id.*b2*);  
 b3=(Button) findViewById(R.id.*b3*);  
 b4=(Button) findViewById(R.id.*b4*);  
 b5=(Button) findViewById(R.id.*b5*);  
 e1=(EditText) findViewById(R.id.*e1*);  
 e2=(EditText) findViewById(R.id.*e2*);  
 e3=(EditText) findViewById(R.id.*e3*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 n1=e1.getText().toString();  
 n2=e2.getText().toString();  
 a=Integer.*parseInt*(n1);  
 b=Integer.*parseInt*(n2);  
 op=a+b;  
 e3.setText(Integer.*toString*(op));  
  
 }  
  
 });  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 n1=e1.getText().toString();  
 n2=e2.getText().toString();  
 a=Integer.*parseInt*(n1);  
 b=Integer.*parseInt*(n2);  
 op=a-b;  
 e3.setText(Integer.*toString*(op));  
 }  
 });  
 b3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 n1=e1.getText().toString();  
 n2=e2.getText().toString();  
 a=Integer.*parseInt*(n1);  
 b=Integer.*parseInt*(n2);  
 op=a\*b;  
 e3.setText(Integer.*toString*(op));  
 }  
 });  
 b4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 n1=e1.getText().toString();  
 n2=e2.getText().toString();  
 a=Integer.*parseInt*(n1);  
 b=Integer.*parseInt*(n2);  
 op=a/b;  
 e3.setText(Integer.*toString*(op));  
 }  
 });  
 b5.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 e1.setText("");  
 e2.setText("");  
 e3.setText("");  
 }  
 });  
 }  
}

activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/e3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="129dp"  
 android:layout\_marginTop="12dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_marginBottom="4dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toTopOf="@+id/t4"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/t5"  
 app:layout\_constraintTop\_toBottomOf="@+id/e2" />  
  
 <TextView  
 android:id="@+id/t1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Calculator"  
 android:textColor="#F30909"  
 android:textSize="12sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.443"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.058" />  
  
 <TextView  
 android:id="@+id/t2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="132dp"  
 android:layout\_marginBottom="8dp"  
 android:text="Enter First number:"  
 android:textColor="#1835D5"  
 app:layout\_constraintBottom\_toTopOf="@+id/t3"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/t3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="54dp"  
 android:layout\_marginBottom="51dp"  
 android:text="Enter second number:"  
 android:textColor="#1C35C5"  
 app:layout\_constraintBottom\_toTopOf="@+id/t5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/t2" />  
  
 <EditText  
 android:id="@+id/e1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="62dp"  
 android:layout\_marginTop="60dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_marginBottom="28dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toTopOf="@+id/e2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/t2"  
 app:layout\_constraintTop\_toBottomOf="@+id/t1" />  
  
 <EditText  
 android:id="@+id/e2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="45dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_marginBottom="26dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toTopOf="@+id/e3"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/t3"  
 app:layout\_constraintTop\_toBottomOf="@+id/e1" />  
  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="79dp"  
 android:text="Sum"  
 app:layout\_constraintEnd\_toStartOf="@+id/b2"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/t4" />  
  
 <Button  
 android:id="@+id/b2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="40dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="54dp"  
 android:text="Difference"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/b1"  
 app:layout\_constraintTop\_toBottomOf="@+id/t4" />  
  
 <Button  
 android:id="@+id/b4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="68dp"  
 android:layout\_marginTop="44dp"  
 android:layout\_marginEnd="80dp"  
 android:layout\_marginBottom="143dp"  
 android:text="Divide"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/b3"  
 app:layout\_constraintTop\_toBottomOf="@+id/b2" />  
  
 <Button  
 android:id="@+id/b3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="76dp"  
 android:layout\_marginTop="34dp"  
 android:layout\_marginEnd="68dp"  
 android:layout\_marginBottom="143dp"  
 android:text="Multiply"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toStartOf="@+id/b4"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/b1" />  
  
 <TextView  
 android:id="@+id/t4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="135dp"  
 android:layout\_marginTop="80dp"  
 android:layout\_marginEnd="163dp"  
 android:layout\_marginBottom="60dp"  
 android:text="Press any Button"  
 android:textColor="#F37DA5"  
 app:layout\_constraintBottom\_toTopOf="@+id/b2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/e3" />  
  
 <TextView  
 android:id="@+id/t5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="27dp"  
 android:layout\_marginTop="1dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginBottom="387dp"  
 android:text="Output"  
 android:textColor="#1530C3"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toStartOf="@+id/e3"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/t3" />  
  
 <Button  
 android:id="@+id/b5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="160dp"  
 android:layout\_marginTop="251dp"  
 android:layout\_marginEnd="163dp"  
 android:layout\_marginBottom="61dp"  
 android:text="Clear"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/t4" />

Output

