Math Operation

Activity.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"  
 android:backgroundTint="@android:color/darker\_gray"  
 tools:context=".MainActivity"  
 android:orientation="vertical">  
 <TextView  
 android:layout\_width="194dp"  
 android:layout\_height="43dp"  
 android:layout\_marginStart="114dp"  
 android:layout\_marginLeft="114dp"  
 android:layout\_marginTop="58dp"  
 android:layout\_marginEnd="103dp"  
 android:layout\_marginRight="103dp"  
 android:layout\_marginBottom="502dp"  
 android:scrollbarSize="30dp"  
 android:text=" Calculator"  
 android:textAppearance="@style/TextAppearance.AppCompat.Body1"  
 android:textSize="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <EditText  
 android:id="@+id/num1"  
 android:layout\_width="364dp"  
 android:layout\_height="28dp"  
 android:layout\_marginStart="72dp"  
 android:layout\_marginTop="70dp"  
 android:layout\_marginEnd="71dp"  
 android:layout\_marginBottom="416dp"  
 android:background="@android:color/white"  
 android:ems="10"  
 android:hint="Number1(0)"  
 android:inputType="number"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <EditText  
 android:id="@+id/num2"  
 android:layout\_width="363dp"  
 android:layout\_height="30dp"  
 android:layout\_marginStart="72dp"  
 android:layout\_marginTop="112dp"  
 android:layout\_marginEnd="71dp"  
 android:layout\_marginBottom="374dp"  
 android:background="@android:color/white"  
 android:ems="10"  
 android:hint="number2(0)"  
 android:inputType="number"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="356dp"  
 android:layout\_height="71dp"  
 android:layout\_marginStart="41dp"  
 android:layout\_marginTop="151dp"  
 android:layout\_marginEnd="48dp"  
 android:layout\_marginBottom="287dp"  
 android:background="@android:color/white"  
 android:text="result"  
 android:textColorLink="#673AB7"  
 android:textSize="25sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <Button  
 android:id="@+id/sum"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="307dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doSum"  
 android:text="+"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/mul"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="356dp"  
 android:layout\_marginEnd="307dp"  
 android:layout\_marginBottom="199dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doMul"  
 android:text="x"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.531" />  
  
 <Button  
 android:id="@+id/sub"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="210dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="113dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doSub"  
 android:text="-"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.507" />  
  
 <Button  
 android:id="@+id/div"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="307dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doDiv"  
 android:text="/"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

package com.example.math\_opertions;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText e1, e2;  
 TextView t1;  
 int num1, num2;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
  
 // a public method to get the input numbers  
 public boolean getNumbers() {  
  
  
 e1 = (EditText) findViewById(R.id.*num1*);  
 e2 = (EditText) findViewById(R.id.*num2*);  
 t1 = (TextView) findViewById(R.id.*result*);  
  
 String s1 = e1.getText().toString();  
 String s2 = e2.getText().toString();  
  
 if ((s1.equals(null) && s2.equals(null))  
 || (s1.equals("") && s2.equals(""))) {  
  
 String result = "Please enter a value";  
 t1.setText(result);  
  
 return false;  
 } else {  
 // converting string to int.  
 num1 = Integer.*parseInt*(s1);  
  
 // converting string to int.  
 num2 = Integer.*parseInt*(s2);  
 }  
  
 return true;  
 }  
 public void doSum(View v) {  
 if (getNumbers()) {  
 int sum = num1 + num2;  
 t1.setText(Integer.toString(sum));  
 }  
 }  
  
 public void doSub(View v) {  
 if (getNumbers()) {  
 int sum = num1 - num2;  
 t1.setText(Integer.toString(sum));  
 }  
 }  
  
 public void doMul(View v) {  
 if (getNumbers()) {  
 int sum = num1 \* num2;  
 t1.setText(Integer.toString(sum));  
 }  
 }  
  
 public void doDiv(View v) {  
 if (getNumbers()) {  
 double sum = num1 / (num2 \* 1.0);  
 t1.setText(Double.toString(sum));  
 }  
 }  
}

Output

