**SAURABH FARSWAN**

**BCA – 5 ‘C’**

**1921213**

**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">

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="48dp"

android:text="@string/calculator"

android:textSize="28sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/edtNumber1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="64dp"

android:ems="10"

android:hint="@string/first\_number"

android:inputType="numberDecimal"

android:textAlignment="center"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView2" />

<EditText

android:id="@+id/edtNumber2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="32dp"

android:ems="10"

android:hint="@string/second\_number"

android:inputType="numberDecimal"

android:textAlignment="center"

app:layout\_constraintEnd\_toEndOf="@+id/edtNumber1"

app:layout\_constraintStart\_toStartOf="@+id/edtNumber1"

app:layout\_constraintTop\_toBottomOf="@+id/edtNumber1" />

<Button

android:id="@+id/add"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="32dp"

android:text="@string/add"

android:textSize="24sp"

android:onClick="add"

app:layout\_constraintEnd\_toStartOf="@+id/subtract"

app:layout\_constraintHorizontal\_chainStyle="spread\_inside"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@id/edtNumber2" />

<Button

android:id="@+id/subtract"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="32dp"

android:text="@string/sub"

android:textSize="24sp"

android:onClick="subtract"

app:layout\_constraintEnd\_toStartOf="@+id/multiply"

app:layout\_constraintStart\_toEndOf="@+id/add"

app:layout\_constraintTop\_toBottomOf="@id/edtNumber2" />

<Button

android:id="@+id/multiply"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="32dp"

android:text="@string/mul"

android:onClick="multiply"

android:textSize="24sp"

app:layout\_constraintEnd\_toStartOf="@+id/divide" app:layout\_constraintStart\_toEndOf="@+id/subtract" app:layout\_constraintTop\_toBottomOf="@id/edtNumber2" />

<Button

android:id="@+id/divide"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="32dp"

android:text="@string/div"

android:textSize="24sp"

android:onClick="divide"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toEndOf="@+id/multiply"

app:layout\_constraintTop\_toBottomOf="@id/edtNumber2" />

<TextView

android:id="@+id/txtResultHeader"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="96dp"

android:text="@string/result"

android:textSize="24sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/multiply" />

<TextView

android:id="@+id/txtResult"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:textSize="22sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/txtResultHeader" />

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

*package* com.example.myapplicationadd;

*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 {

*private* EditText edtNumber1;

*private* EditText edtNumber2;

*private* TextView result;

*private float* number1;

*private float* number2;

*@Override*

*protected void* onCreate(Bundle savedInstanceState)

{ *super*.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

edtNumber1 = findViewById(R.id.edtNumber1);

edtNumber2 = findViewById(R.id.edtNumber2);

result = findViewById(R.id.txtResult);

}

*public void* add(View view) {

number1 = Float.parseFloat(edtNumber1.getText().toString().trim()); number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

result.setText(String.valueOf((number1 + number2)));

}

*public void* subtract(View view) {

number1 = Float.parseFloat(edtNumber1.getText().toString().trim()); number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

result.setText(String.valueOf((number1 - number2)));

}

*public void* multiply(View view) {

number1 = Float.parseFloat(edtNumber1.getText().toString().trim()); number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

result.setText(String.valueOf((number1 \* number2)));

}

*public void* divide(View view) {

number1 = Float.parseFloat(edtNumber1.getText().toString().trim()); number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

result.setText(String.valueOf((number1 / number2)));

}

}

