Experiment-3

Implementing basic arithmetic operations of a simple calculator

CODE

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">
  <Button
     android:id="@+id/btadd"
     android:layout width="65dp"
     android:layout_height="45dp"
     android:lavout marginStart="36dp"
     android:layout_marginEnd="281dp"
     android:layout_marginBottom="360dp"
     android:onClick="add"
     android:text="ADD"
    app:layout_constraintBottom_toBottomOf="parent"
     app:layout_constraintEnd_toEndOf="parent"
     app:layout constraintHorizontal bias="0.034"
     app:layout constraintStart toStartOf="parent" />
  <Button
     android:id="@+id/btsub"
     android:layout width="65dp"
    android:layout height="45dp"
     android:layout marginStart="4dp"
     android:layout_marginEnd="182dp"
     android:layout marginBottom="360dp"
    android:onClick="sub"
     android:text="SUB"
     app:layout_constraintBottom_toBottomOf="parent"
     app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.275"
     app:layout_constraintStart_toEndOf="@+id/btadd" />
  <Button
     android:id="@+id/btdiv"
     android:layout width="65dp"
     android:layout_height="45dp"
     android:layout marginStart="5dp"
    android:layout_marginEnd="82dp"
     android:layout_marginBottom="360dp"
     android:onClick="div"
     android:text="DIV"
```

```
app:layout_constraintBottom_toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.349"
  app:layout constraintStart toEndOf="@+id/btsub"/>
<Button
  android:id="@+id/btmul"
  android:layout_width="65dp"
  android:layout_height="45dp"
  android:layout_marginStart="5dp"
  android:layout marginEnd="8dp"
  android:layout marginBottom="360dp"
  android:onClick="mul"
  android:text="MUL"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.361"
  app:layout constraintStart toEndOf="@+id/btdiv"/>
<EditText
  android:id="@+id/etnum1"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout marginStart="105dp"
  android:layout marginTop="57dp"
  android:layout_marginEnd="96dp"
  android:layout marginBottom="34dp"
  android:ems="10"
  android:hint="Enter num1"
  android:inputType="textPersonName"
  app:layout constraintBottom toTopOf="@+id/etnum2"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent" />
<EditText
  android:id="@+id/etnum2"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout_marginStart="107dp"
  android:layout marginTop="34dp"
  android:layout_marginEnd="94dp"
  android:lavout marginBottom="145dp"
  android:ems="10"
  android:hint="Enter num2"
  android:inputType="textPersonName"
  app:layout_constraintBottom_toTopOf="@+id/btsub"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/etnum1" />
<TextView
  android:id="@+id/etans"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout_marginStart="177dp"
```

```
android:layout_marginTop="119dp"
     android:layout_marginEnd="176dp"
    android:layout_marginBottom="222dp"
    android:text="Result"
    android:textSize="30dp"
     android:textColor="@color/black"
     app:layout_constraintBottom_toBottomOf="parent"
     app:layout_constraintEnd_toEndOf="parent"
     app:layout_constraintStart_toStartOf="parent"
     app:layout_constraintTop_toBottomOf="@+id/btsub" />
</androidx.constraintlayout.widget.ConstraintLayout>
Activity_Main.java
package com.example.simplecalculatorapp;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  private EditText etnum1,etnum2;
  private TextView etans;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
  public void add(View V){
     etnum1=(EditText) findViewById(R.id.etnum1);
     etnum2=(EditText) findViewById(R.id.etnum2);
     etans=(TextView) findViewById(R.id.etans);
     int n1=Integer.parseInt(etnum1.getText().toString());
    int n2=Integer.parseInt(etnum2.getText().toString());
     int result=n1+n2:
     etans.setText("Result:"+result);
  public void sub(View V){
     etnum1=(EditText) findViewById(R.id.etnum1);
     etnum2=(EditText) findViewById(R.id.etnum2);
     etans=(TextView) findViewById(R.id.etans);
     int n1=Integer.parseInt(etnum1.getText().toString());
     int n2=Integer.parseInt(etnum2.getText().toString());
    int result=n1-n2;
     etans.setText("Result:"+result);
  }
```

```
public void div(View V){
     etnum1=(EditText) findViewById(R.id.etnum1);
     etnum2=(EditText) findViewById(R.id.etnum2);
     etans=(TextView) findViewById(R.id.etans);
     int n1=Integer.parseInt(etnum1.getText().toString());
     int n2=Integer.parseInt(etnum2.getText().toString());
     int result=n1/n2;
     etans.setText("Result:"+result);
  public void mul(View V){
     etnum1=(EditText) findViewById(R.id.etnum1);
     etnum2=(EditText) findViewById(R.id.etnum2);
     etans=(TextView) findViewById(R.id.etans);
     int n1=Integer.parseInt(etnum1.getText().toString());
     int n2=Integer.parseInt(etnum2.getText().toString());
     int result=n1*n2:
     etans.setText("Result:"+result);
  }
}
```

OUTPUT

