Develop an application to perform 5 arithmetic operations: Addition, Subtraction, Multiplication, Division and Modulo operation with necessary user interface creation.

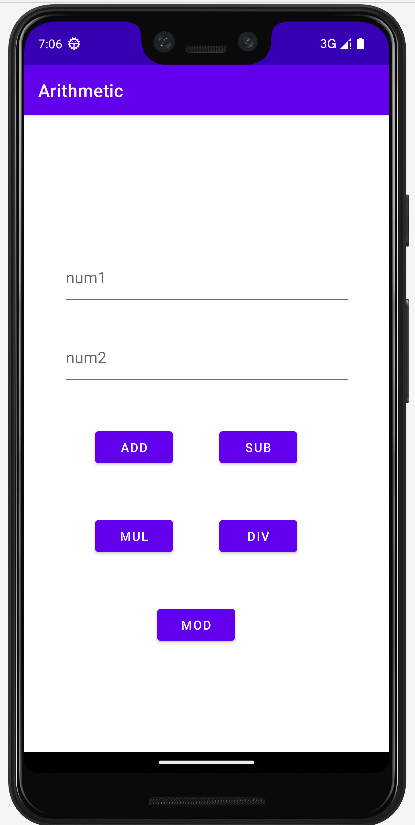
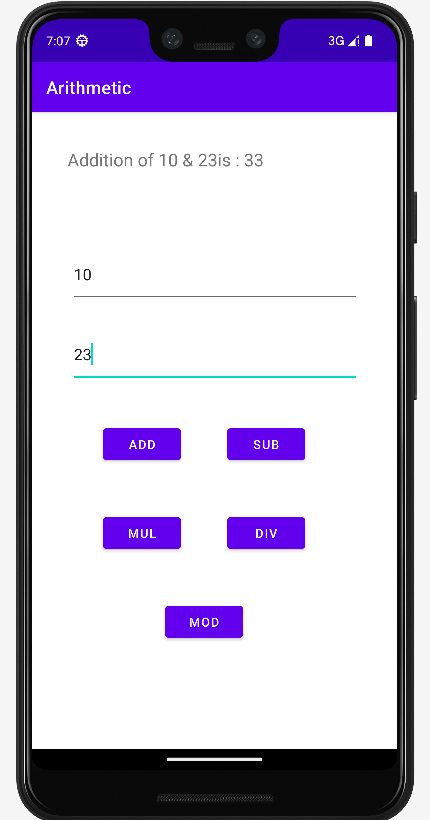
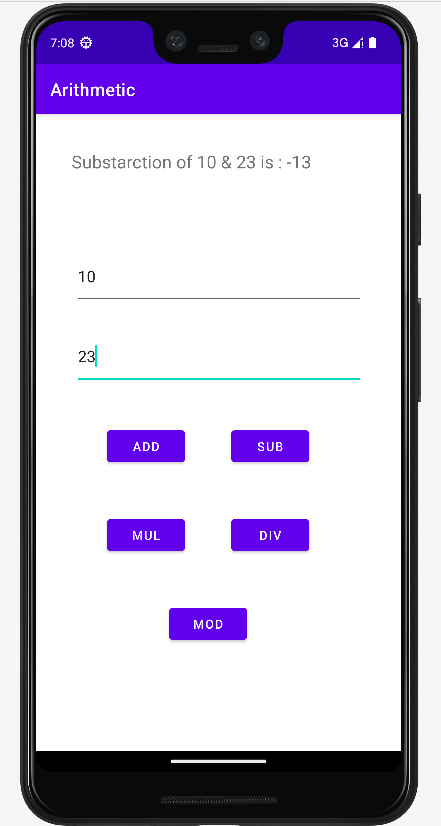
**activity\_main.xml**

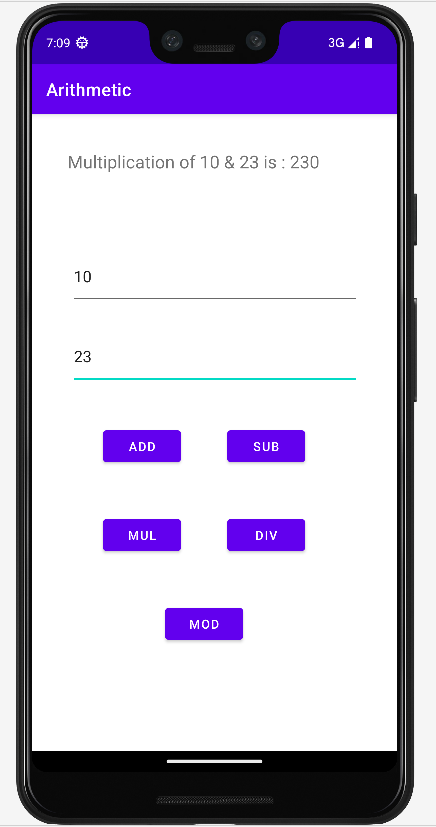
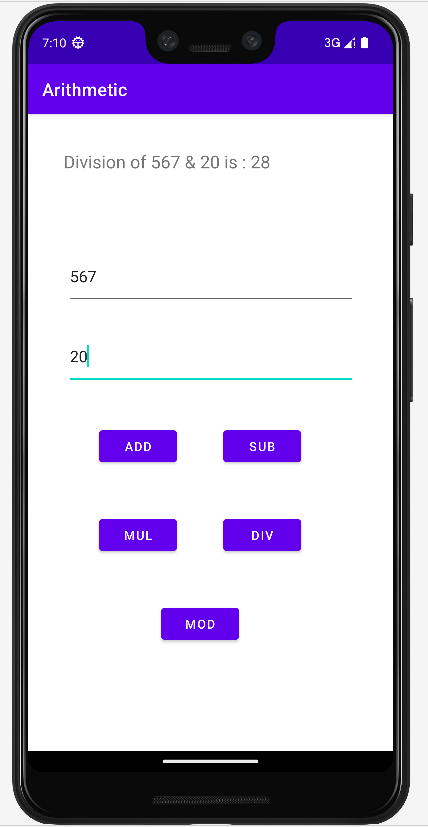
*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/tv1"  
 android:layout\_width="338dp"  
 android:layout\_height="58dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginStart="40dp"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginEnd="33dp"  
 android:textSize="20dp" />  
  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="326dp"  
 android:layout\_height="66dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginStart="43dp"  
 android:layout\_marginTop="150dp"  
 android:layout\_marginEnd="42dp"  
 android:hint="num1" />  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="326dp"  
 android:layout\_height="66dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginStart="43dp"  
 android:layout\_marginTop="240dp"  
 android:layout\_marginEnd="42dp"  
 android:hint="num2" />  
 <Button  
 android:id="@+id/add"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="add"  
 android:layout\_marginTop="350dp"  
 android:layout\_marginLeft="80dp"/>  
 <Button  
 android:id="@+id/sub"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="sub"  
 android:layout\_marginTop="350dp"  
 android:layout\_marginLeft="220dp"/>  
 <Button  
 android:id="@+id/mul"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="mul"  
 android:layout\_marginTop="450dp"  
 android:layout\_marginLeft="80dp"/>  
 <Button  
 android:id="@+id/div"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="div"  
 android:layout\_marginTop="450dp"  
 android:layout\_marginLeft="220dp"/>  
 <Button  
 android:id="@+id/mod"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="mod"  
 android:layout\_marginLeft="150dp"  
 android:layout\_marginTop="550dp"/>  
</RelativeLayout>

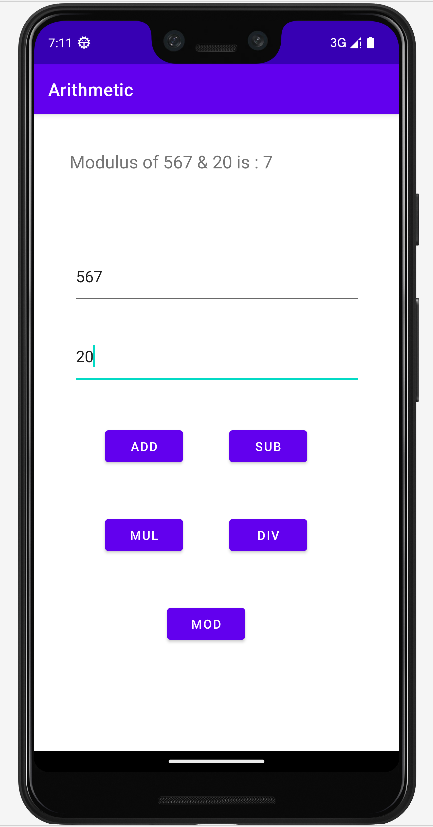
**MainActivity.java**

package com.example.arithmetic;  
  
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 {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 TextView res = (TextView) findViewById(R.id.*tv1*);  
 EditText num1 = (EditText) findViewById(R.id.*et1*);  
 EditText num2 = (EditText) findViewById(R.id.*et2*);  
 Button add = (Button) findViewById(R.id.*add*);  
 Button sub = (Button) findViewById(R.id.*sub*);  
 Button mul = (Button) findViewById(R.id.*mul*);  
 Button div = (Button) findViewById(R.id.*div*);  
 Button mod = (Button) findViewById(R.id.*mod*);  
 add.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int x = Integer.*parseInt*(num1.getText().toString());  
 int y = Integer.*parseInt*(num2.getText().toString());  
 int add = x+y;  
 res.setText("Addition of "+x+" & "+y+"is : "+add);  
 }  
 });  
 sub.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int x = Integer.*parseInt*(num1.getText().toString());  
 int y = Integer.*parseInt*(num2.getText().toString());  
 int sub = x-y;  
 res.setText("Substarction of "+x+" & "+y+" is : "+sub);  
 }  
 });  
 mul.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int x = Integer.*parseInt*(num1.getText().toString());  
 int y = Integer.*parseInt*(num2.getText().toString());  
 int mul = x\*y;  
 res.setText("Multiplication of "+x+" & "+y+" is : "+mul);  
 }  
 });  
 div.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int x = Integer.*parseInt*(num1.getText().toString());  
 int y = Integer.*parseInt*(num2.getText().toString());  
 int div = x/y;  
 res.setText("Division of "+x+" & "+y+" is : "+div);  
 }  
 });  
 mod.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int x = Integer.*parseInt*(num1.getText().toString());  
 int y = Integer.*parseInt*(num2.getText().toString());  
 int mod = x%y;  
 res.setText("Modulus of "+x+" & "+y+" is : "+mod);  
 }  
 });  
 }  
}

**Output:-**

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