Mid term

Name:Yastee Shah

ID: 1227980

Subject: (2024A) COMP-5450-AA - Mobile Programming

Ques1:

App name: Simple Calculator

Calculator after using When statement:

On selection of addition button:



On selecting division button:



It gives output with more than 10 digits after a point.

Codes:

MainActivity.kt

package com.example.midterm que1

```
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.TextView
import android.widget.Toast

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

    val number1EditText = findViewById<EditText>(R.id.number1)
    val number2EditText = findViewById<EditText>(R.id.number2)
    val resultTextView = findViewById<TextView>(R.id.result)
```

```
val buttonAdd = findViewById<Button>(R.id.buttonAdd)
      val buttonSubtract = findViewById<Button>(R.id.buttonSubtract)
      val buttonMultiply = findViewById<Button>(R.id.buttonMultiply)
      val buttonDivide = findViewById<Button>(R.id.buttonDivide)
      buttonAdd.setOnClickListener {
          performOperation(number1EditText, number2EditText, resultTextView,
      buttonSubtract.setOnClickListener {
          performOperation(number1EditText, number2EditText, resultTextView,
      buttonMultiply.setOnClickListener {
          performOperation(number1EditText, number2EditText, resultTextView,
      buttonDivide.setOnClickListener {
          performOperation(number1EditText, number2EditText, resultTextView,
      number2EditText: EditText,
      operation: String
      val num1 = number1EditText.text.toString().toDoubleOrNull()
      val num2 = number2EditText.text.toString().toDoubleOrNull()
Toast.LENGTH SHORT).show()
      val result = when (operation) {
```

Colors.xml

<resources>

```
<color name="button_background">#D32F2F</color>
</resources>
```

Edit_text_bg.xml

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="l6dp"
    android:gravity="center"
    android:background="#FFEBEE">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Simple Calculator"
        android:textSize="24sp"
        android:textStyle="bold"
        android:textColor="#D32F2F" />

    <EditText
        android:id="@+id/number1"</pre>
```

```
android:layout height="wrap content"
   android:inputType="numberDecimal"
   android:layout marginBottom="8dp" />
<EditText
   android:id="@+id/number2"
   android:inputType="numberDecimal"
   android:padding="8dp"
   android:layout marginBottom="16dp" />
<TextView
   android:id="@+id/result"
   android:layout width="wrap content"
   android:layout marginBottom="16dp"
   android:textSize="18sp"
   android:layout width="match parent"
   android:orientation="horizontal"
   android:gravity="center">
       android:layout width="0dp"
       android:layout height="wrap content"
       android:layout weight="1"
       android:id="@+id/buttonSubtract"
       android:layout width="0dp"
       android:layout height="wrap content"
       android:layout weight="1"
```