Mobile programing Namratha Jagadeesh 1199011

Question 1:

Create a calculator app that can perform addition, subtraction, multiplication, and division. You must use the When statement.

MainActivity.kt

```
package com.example.mykotlinapp
import android.os.Bundle
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.Button
import android.widget.EditText
import android.widget.Spinner
import android.widget.TextView
import android.widget.Toast
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
class MainActivity : AppCompatActivity(), View.OnClickListener {
  lateinit var etA: EditText
  lateinit var etB: EditText
  lateinit var res: TextView
  lateinit var receivedText: TextView
  override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
      setContentView(R.layout.activity main)
      ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v,
insets ->
insets.getInsets(WindowInsetsCompat.Type.systemBars())
          v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom)
      etA = findViewById(R.id.et a)
```

```
res = findViewById(R.id.result)
      btn = findViewById(R.id.button)
      spinner = findViewById(R.id.spinner operations)
      receivedText = findViewById(R.id.receivedText)
      btn.setOnClickListener(this)
  override fun onClick(v: View?) {
      var a = etA.text.toString().toDouble()
      var b = etB.text.toString().toDouble()
      when (spinner.selectedItem.toString()) {
      val inflater = menuInflater
       inflater.inflate(R.menu.menu, menu)
  override fun onOptionsItemSelected(item: MenuItem): Boolean {
Toast.LENGTH SHORT).show()
               Toast.makeText(this, "item 2 selected",
Toast.LENGTH SHORT).show()
Toast.LENGTH SHORT).show()
```

```
}
    else -> super.onOptionsItemSelected(item)
}
}
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:id="@+id/main"
  android:layout width="match parent"
      android:layout height="wrap content"
      android:id="@+id/et b"
      android:layout width="match parent"
      android:layout_height="wrap content"
      android:layout width="match parent"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:text="Calculate" />
   <TextView
      android:id="@+id/result"
      android:layout width="match parent"
      android:layout height="wrap content"
      android:text="Result" />
```

```
android:id="@+id/receivedText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="24sp"
    android:text="No data received" />
</LinearLayout>
```

OUTPUTS:

