Mobile programing Namratha Jagadeesh 1199011

Question 2:

Create an app of your choice(do not repeat question 1) as a topic that uses several views with at least a Button and Spinner with their Listeners (setOnClickListener and onItemSelectedListener), accordingly

MainActivity.kt

```
package com.example.mykotlinapp
import android.os.Bundle
import android.view.View
import android.widget.EditText
import android.widget.Spinner
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.WindowInsetsCompat
class MainActivity : AppCompatActivity(), View.OnClickListener {
  lateinit var etA: EditText
  lateinit var etB: EditText
  lateinit var res: TextView
  override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
      enableEdgeToEdge()
      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)
      etB = findViewById(R.id.et b)
      res = findViewById(R.id.result)
```

```
btn=findViewById(R.id.button)
    spinner=findViewById(R.id.spinner_operations)

btn.setOnClickListener(this)

}

override fun onClick(v: View?) {
    var a=etA.text.toString().toDouble()
    var b=etB.text.toString().toDouble()
    var result=0.0
    when(spinner.selectedItem.toString()) {
        "add"->{result=a+b}
        "sub" ->{result=a-b}
        "mul" ->{result=a-b}
        "div" ->{result=a/b}
    }
    res.text="Result is $result"
}
```

Activitymain.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/addWorkoutButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Add Workout"
        android:text="Add Workout"
        android:textColor="@android:color/white"
        android:background="@drawable/button_background"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Logworkoutactivity.kt

```
package com.example.myapplication
import android.os.Bundle
import android.view.View
import android.widget.AdapterView
import android.widget.ArrayAdapter
import android.widget.Button
import android.widget.Spinner
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
class LogWorkoutActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
      setContentView(R.layout.activity log workout)
      workoutTypeSpinner = findViewById(R.id.workoutTypeSpinner)
      saveWorkoutButton = findViewById(R.id.saveWorkoutButton)
      val adapter = ArrayAdapter.createFromResource(
adapter.setDropDownViewResource(android.R.layout.simple spinner dropdown item)
      workoutTypeSpinner.adapter = adapter
AdapterView.OnItemSelectedListener {
           override fun onItemSelected(parent: AdapterView<*>?, view: View?,
position: Int, id: Long) {
              val workoutType = parent?.getItemAtPosition(position).toString()
              Toast.makeText(parent?.context, "Selected: $workoutType",
Toast.LENGTH SHORT).show()
           override fun onNothingSelected(parent: AdapterView<*>?) {
```

```
saveWorkoutButton.setOnClickListener {
    val selectedWorkout = workoutTypeSpinner.selectedItem.toString()
    Toast.makeText(this@LogWorkoutActivity, "Workout Saved:
$selectedWorkout", Toast.LENGTH_SHORT).show()
    }
}
```

Activity_log_workout.xml

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
  android:layout width="match parent"
  android:layout height="match parent"
      android:layout height="48dp"
      android:layout marginTop="24dp"
      android:paddingStart="12dp"
      app:layout constraintEnd toEndOf="parent"
      app:layout constraintStart toStartOf="parent"
      app:layout constraintTop toTopOf="parent"
      android:id="@+id/saveWorkoutButton"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:textColor="@android:color/white"
      app:layout constraintEnd toEndOf="parent"
      app:layout constraintStart toStartOf="parent"
      android:layout marginTop="24dp"
      android:layout marginBottom="24dp"/>
```

OUTPUTS:





