Practical:02:buttons

Activity_main.xml:

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <!-- CheckBoxes for Programming Languages -->
    <TextView
        android:id="@+id/text_languages"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Programming Languages You Know"
        android:textSize="18sp"
        android:layout_marginBottom="8dp" />

    <CheckBox
        android:id="@+id/checkbox_java"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Java" />

    <CheckBox
        android:id="@+id/checkbox_kotlin"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Kotlin" />

    <CheckBox
        android:id="@+id/checkbox_python"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Python" />

    <CheckBox
        android:id="@+id/checkbox_javascript"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="JavaScript" />

    <!-- RadioGroup for Interested in Applying -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Interested in Applying for the Course?"
        android:textSize="18sp"
        android:layout_marginTop="16dp" />

    <RadioGroup
        android:id="@+id/radioGroup_interest"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <RadioButton
```

```xml
            android:id="@+id/radioYes"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Yes" />

        <RadioButton
            android:id="@+id/radioNo"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="No" />
    </RadioGroup>

    <!-- Spinner for Mode of Attending -->
    <TextView
        android:id="@+id/text_mode"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Mode of Attending the Course"
        android:textSize="18sp"
        android:layout_marginTop="16dp" />

    <Spinner
        android:id="@+id/spinnerMode"
        android:layout_width="match_parent"
        android:layout_height="42dp" />

    <!-- Submit Button -->
    <Button
        android:id="@+id/submitButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Submit"
        android:layout_marginTop="16dp" />
</LinearLayout>
```

MainActivity.kt

```kotlin
package com.example.h2
import android.os.Bundle
import android.widget.Spinner
import android.widget.Button
import android.widget.RadioGroup
import android.widget.CheckBox
import android.widget.ArrayAdapter
import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
    private lateinit var spinner: Spinner
    private lateinit var radioGroup: RadioGroup
    private lateinit var submitButton: Button
```

```kotlin
    private lateinit var checkBoxJava: CheckBox
    private lateinit var checkBoxKotlin: CheckBox
    private lateinit var checkBoxPython: CheckBox
    private lateinit var checkBoxJavaScript: CheckBox
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        // Find views by their IDs
        spinner = findViewById(R.id.spinnerMode)
        radioGroup = findViewById(R.id.radioGroup_interest)
        submitButton = findViewById(R.id.submitButton)
        checkBoxJava = findViewById(R.id.checkbox_java)
        checkBoxKotlin = findViewById(R.id.checkbox_kotlin)
        checkBoxPython = findViewById(R.id.checkbox_python)
        checkBoxJavaScript = findViewById(R.id.checkbox_javascript)
// Create an ArrayAdapter for the Spinner (Mode of Attending)
        val modes = arrayOf("Online", "Offline", "Hybrid")
        val adapter = ArrayAdapter(this,
android.R.layout.simple_spinner_item,
            modes)

adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_it
em)
        spinner.adapter = adapter
// Handle button click to submit the form
        submitButton.setOnClickListener {
            val selectedLanguages = getSelectedLanguages()
            val interestedInCourse = getInterestedInCourse()
            val modeOfAttending = spinner.selectedItem.toString()
            // Create an Intent to pass data to the summary page
            val intent = Intent(this, SecondaryActivity::class.java)
            intent.putExtra("languages", selectedLanguages)
            intent.putExtra("interestedInCourse", interestedInCourse)
            intent.putExtra("modeOfAttending", modeOfAttending)
            startActivity(intent)
        }
    }
    // Function to get selected programming languages
    private fun getSelectedLanguages(): String {
        val languages = mutableListOf<String>()
        if (checkBoxJava.isChecked) languages.add("Java")
        if (checkBoxKotlin.isChecked) languages.add("Kotlin")
        if (checkBoxPython.isChecked) languages.add("Python")
        if (checkBoxJavaScript.isChecked)
            languages.add("JavaScript")
        return languages.joinToString(", ")
    }
    // Function to get if the user is interested in applying
    private fun getInterestedInCourse(): String {
        return when (radioGroup.checkedRadioButtonId) {
            R.id.radioYes -> "Yes"
            R.id.radioNo -> "No"
            else -> "Not selected"
        }
    }
}
```

SecondaryActivity.kt

```kotlin
package com.example.h2

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

class SecondaryActivity : AppCompatActivity() {
    private lateinit var textDetails: TextView
    private lateinit var backButton: Button

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

        // Initialize views
        textDetails = findViewById(R.id.text_details)
        backButton = findViewById(R.id.backButton)

        // Get the data from the Intent
        val selectedLanguages = intent.getStringExtra("languages")
        val interestedInCourse =
intent.getStringExtra("interestedInCourse")
        val modeOfAttending = intent.getStringExtra("modeOfAttending")

        // Display the data in the TextView
        val summary = """
            Programming Languages You Know:
            $selectedLanguages
            Interested in Applying: $interestedInCourse
            Mode of Attending the Course: $modeOfAttending
        """.trimIndent()
        textDetails.text = summary

        // Handle back button to go back to the form
        backButton.setOnClickListener {
            finish() // Finishes this activity and goes back to the
previous one
        }
    }
}
```

activity_summary.xml:

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <TextView
        android:id="@+id/text_summary"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Summary"
        android:textSize="22sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/text_details"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text=""
        android:textSize="18sp"
        android:layout_marginTop="16dp" />

    <Button
        android:id="@+id/backButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Back to Form"
        android:layout_marginTop="16dp" />

</LinearLayout>
```