## Practical - 5

## Kothlin file -

```
package com.example.button_demo_2
import android.os.Bundle
import androidx.activity.ComponentActivity
import android.widget.*
class MainActivity : ComponentActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
    // References to UI elements from XML
    val editTextName: EditText = findViewById(R.id.editTextName)
    val btnSubmit: Button = findViewById(R.id.btnSubmit)
    val radioGroupGender: RadioGroup = findViewById(R.id.radioGroupGender)
    val checkBoxReading: CheckBox = findViewById(R.id.checkBoxReading)
    val checkBoxTraveling: CheckBox = findViewById(R.id.checkBoxTraveling)
    val checkBoxGaming: CheckBox = findViewById(R.id.checkBoxGaming)
    val autoCompleteTextView: AutoCompleteTextView = findViewById(R.id.autoCompleteTextView)
    val imageButton: ImageButton = findViewById(R.id.imageButton)
    val toggleButton: ToggleButton = findViewById(R.id.toggleButton)
    val textViewResult: TextView = findViewById(R.id.textViewResult)
    // AutoCompleteTextView setup (for countries)
    val countries = arrayOf("USA", "India", "Canada", "UK", "Australia")
    val adapter = ArrayAdapter(this, android.R.layout.simple dropdown item 1line, countries)
    autoCompleteTextView.setAdapter(adapter)
    // Button click listener to show result
    btnSubmit.setOnClickListener {
      // Get the name from EditText
      val name = editTextName.text.toString()
      // Get the selected gender from RadioGroup
      val genderId = radioGroupGender.checkedRadioButtonId
      val gender = if (genderId != -1) findViewById<RadioButton>(genderId)?.text else "Not
selected"
      // Collect hobbies from Checkboxes
```

```
val hobbies = mutableListOf<String>()
      if (checkBoxReading.isChecked) hobbies.add("Reading")
      if (checkBoxTraveling.isChecked) hobbies.add("Traveling")
      if (checkBoxGaming.isChecked) hobbies.add("Gaming")
      // Get selected country from AutoCompleteTextView
      val country = autoCompleteTextView.text.toString()
      // Get the ToggleButton state
      val toggleState = if (toggleButton.isChecked) "ON" else "OFF"
      // Display the result in TextView
      textViewResult.text = """
        Name: $name
        Gender: $gender
        Hobbies: ${hobbies.joinToString(", ")}
        Country: $country
        Toggle: $toggleState
      """.trimIndent()
    }
    // ImageButton click listener (just to show a toast message)
    imageButton.setOnClickListener {
      Toast.makeText(this, "ImageButton clicked!", Toast.LENGTH SHORT).show()
    }
  }
}
```

## xml -

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp">
```

```
<!-- EditText -->
<EditText
  android:id="@+id/editTextName"
  android:layout_width="match_parent"
  android:layout height="wrap content"
  android:hint="Enter your name"
  android:layout marginBottom="16dp" />
<!-- RadioGroup with RadioButtons -->
<RadioGroup
  android:id="@+id/radioGroupGender"
  android:layout width="match parent"
  android:layout height="wrap content"
  android:orientation="horizontal"
  android:layout marginBottom="16dp">
  < Radio Button
    android:id="@+id/radioMale"
    android:layout width="wrap content"
    android:layout_height="wrap content"
    android:text="Male" />
  <RadioButton
    android:id="@+id/radioFemale"
    android:layout_width="wrap content"
    android:layout_height="wrap_content"
    android:text="Female" />
</RadioGroup>
<!-- Submit Button -->
<Button
  android:id="@+id/btnSubmit"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout_marginBottom="16dp"
```

```
android:text="Submit" />
<!-- TextView for Hobbies -->
<TextView
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:text="Select hobbies:"
  android:layout marginBottom="8dp" />
<!-- CheckBoxes -->
<CheckBox
  android:id="@+id/checkBoxReading"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:text="Reading" />
<CheckBox
  android:id="@+id/checkBoxTraveling"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:text="Traveling" />
<CheckBox
  android:id="@+id/checkBoxGaming"
  android:layout width="wrap content"
  android:layout_height="wrap content"
  android:text="Gaming"
  android:layout marginBottom="16dp" />
<!-- AutoCompleteTextView -->
<AutoCompleteTextView
  android:id="@+id/autoCompleteTextView"
  android:layout_width="match_parent"
  android:layout height="wrap content"
  android:hint="Choose your country"
  android:layout marginBottom="16dp" />
```

```
<!-- ImageButton -->
  <ImageButton</pre>
    android:id="@+id/imageButton"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:src="@drawable/ic launcher foreground"
    android:contentDescription="Camera"
    android:layout_marginBottom="16dp" />
  <!-- ToggleButton -->
  <ToggleButton
    android:id="@+id/toggleButton"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:textOn="ON"
    android:textOff="OFF"
    android:layout_marginBottom="16dp" />
  <!-- Result TextView -->
  <TextView
    android:id="@+id/textViewResult"
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:text="Result will be shown here"
    android:textSize="16sp"
    android:textColor="#C33C3C"
    android:layout_marginTop="16dp"
    android:gravity="center" />
</LinearLayout>
```