

Experiment - 2.2

Student Name: Rohan Jaiswal

Branch: BE-CSE

Semester: 6

Subject Name: MAD Lab

UID: 21BCS2856

Section/Group: KRG-CC1-B

Date of Performance: 27/02/2024

Subject Code: 21CSH-355

- 1. Aim:** Create an Android App using various controls such as TextEdit, CheckBox, RadioButton, RadioGroup etc.
- 2. Objective:** The objective of an Android app using various controls such as EditText, CheckBox, RadioButton, and RadioGroup could be to create a user interface that involves user input, selection, and interaction with different types of controls. This type of app aims to showcase the usage and functionalities of these UI elements to enhance the user experience.

3. System Requirements:

- Microsoft Windows 7/8/10(32 Bit or 64bit)
- 4GB RAM minimum, 8GB RAM recommended(plus 1GB for the Android Emulator)
- 2GB of available disk space minimum, 4GB recommended(500MB for IDE plus 1.5GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution

4. Steps to add the intent to different activity:

Step 1. Create a new Project with name radioGroup and in MainActivity.java create radioGroup , button and Text etc.

MainActivity.java

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<RelativeLayout 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">
```

```
<RadioGroup
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerInParent="true"
    android:id="@+id/radioGroup">
```

```
<RadioButton
    android:id="@+id/radio_one"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="One"
    android:onClick="checkButton"
    android:checked="true"/>
```

```
<RadioButton
    android:id="@+id/radio_two"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Two"
    android:onClick="checkButton"/>
```

```
<RadioButton
    android:id="@+id/radio_three"
```

```
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:text="Three"  
android:onClick="checkButton"/>
```

```
</RadioGroup>
```

```
<TextView
```

```
    android:id="@+id/text_view_selected"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_below="@+id/radioGroup"  
    android:layout_centerHorizontal="true"  
    android:layout_marginTop="27dp"  
    android:text="Your selection: "  
    android:textSize="20sp" />
```

```
<Button
```

```
    android:id="@+id/button_apply"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_below="@+id/text_view_selected"  
    android:layout_centerHorizontal="true"  
    android:layout_marginTop="37dp"  
    android:text="apply" />
```

```
</RelativeLayout>
```

Step 2. In MainActivity.java, When the user selects one of these buttons and clicks the "Apply" button, the app displays the selected option in a text view.

```
package com.example.radiogroup;
```

```
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.TextView;  
import android.widget.Toast;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    RadioGroup radioGroup;  
    RadioButton radioButton;  
    TextView textView;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);
```

```
radioGroup = findViewById(R.id.radioGroup);
textView = findViewById(R.id.text_view_selected);

Button buttonApply = findViewById(R.id.button_apply);
buttonApply.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        int radioId = radioGroup.getCheckedRadioButtonId();

        radioButton = findViewById(radioId);

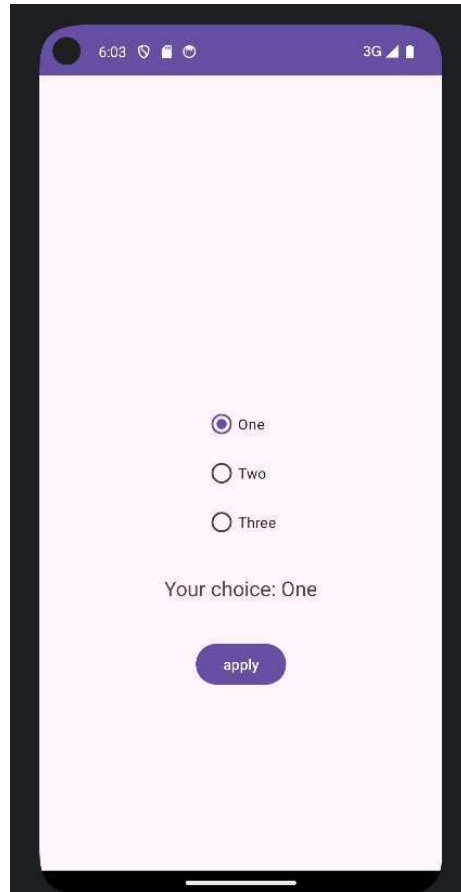
        textView.setText("Your choice: " + radioButton.getText());
    }

});

}

public void checkButton(View v) {
    int radioId = radioGroup.getCheckedRadioButtonId();
    radioButton = findViewById(radioId);
    Toast.makeText(this, "Selected Radio Button: " + radioButton.getText(),
        Toast.LENGTH_SHORT).show();
}
}
```

5. RESULT:



6. Learning outcomes (What I have learnt):

I learn how to create radioGroup, CheckBox, Button etc in android studio.