Exp No.3

Rishab Mandal

Batch: C23

Code:

activity_main.xml

```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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    tools:context=".MainActivity">

    <TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="C23\nRishab Mandal\nRoll no: 2103110"
    android:textSize="20sp"
    android:textColor="@android:color/black"
    android:layout_centerHorizontal="true"
    android:layout_margin="50dp"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name:"/>
    <EditText
        android:id="@+id/editTextName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your name"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Email:"/>
    <EditText
        android:id="@+id/editTextEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="textEmailAddress"
        android:hint="Enter your email"/>
    <RadioGroup
        android:id="@+id/radioGroupGender"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
        <RadioButton
            android:id="@+id/radioButtonMale"
            android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:text="Male"/>
        <RadioButton
            android:id="@+id/radioButtonFemale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Female"/>
    </RadioGroup>
    <CheckBox
        android:id="@+id/checkBoxAgree"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="I agree to the terms and conditions"/>
    <Button
        android:id="@+id/buttonSubmit"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Submit"/>

</LinearLayout>
```

MainActivity.java

```java
package com.example.formapplication;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private EditText editTextName, editTextEmail;
    private RadioGroup radioGroupGender;
    private CheckBox checkBoxAgree;
    private Button buttonSubmit;

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

        // Initialize views
        editTextName = findViewById(R.id.editTextName);
        editTextEmail = findViewById(R.id.editTextEmail);
        radioGroupGender = findViewById(R.id.radioGroupGender);
        checkBoxAgree = findViewById(R.id.checkBoxAgree);
        buttonSubmit = findViewById(R.id.buttonSubmit);

        // Set click listener for the submit button
        buttonSubmit.setOnClickListener(new View.OnClickListener() {
            @Override
```
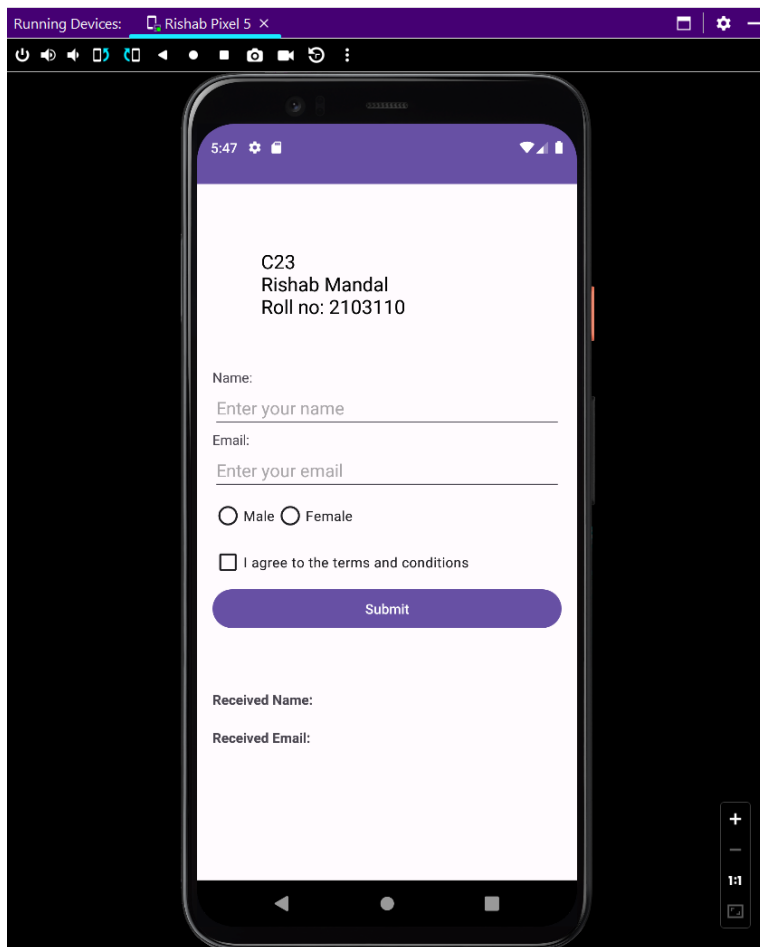
```
        public void onClick(View view) {
            // Get user input
            String name = editTextName.getText().toString().trim();
            String email = editTextEmail.getText().toString().trim();
            int genderId = radioGroupGender.getCheckedRadioButtonId();
            boolean agreeToTerms = checkBoxAgree.isChecked();

            // Validate input
            if (name.isEmpty() || email.isEmpty() || genderId == -1 ||
!agreeToTerms) {
                Toast.makeText(MainActivity.this, "Please fill in all
fields and agree to terms", Toast.LENGTH_SHORT).show();
            } else {
                // Display a toast with the form data
                String gender = (genderId == R.id.radioButtonMale) ?
"Male" : "Female";
                String message = "Name: " + name + "\nEmail: " + email
+ "\nGender: " + gender + "\nAgree to terms: " + agreeToTerms;
                Toast.makeText(MainActivity.this, message,
Toast.LENGTH_LONG).show();
            }
        }
    });
    }
}
```

Output:

Opening and filing the form

Filled form, clicking on submit button