**Practical 14:**

**MainActivity.java:**

package com.example.practical14;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private Spinner subjectSpinner;

private RadioGroup genderRadioGroup;

private CheckBox qualificationCheckBox;

private Button registerButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

subjectSpinner = findViewById(R.id.*subjectSpinner*);

genderRadioGroup = findViewById(R.id.*genderRadioGroup*);

qualificationCheckBox = findViewById(R.id.*qualificationCheckBox*);

registerButton = findViewById(R.id.*registerButton*);

ArrayAdapter<CharSequence> adapter = ArrayAdapter.*createFromResource*(this,

R.array.*subjects*, android.R.layout.*simple\_spinner\_item*);

adapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);

subjectSpinner.setAdapter(adapter);

registerButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

register();

}

});

}

private void register() {

String subject = subjectSpinner.getSelectedItem().toString();

String gender = ((RadioButton) findViewById(genderRadioGroup.getCheckedRadioButtonId())).getText().toString();

boolean qualification = qualificationCheckBox.isChecked();

Intent intent = new Intent(MainActivity.this,DisplayActivity.class);

intent.putExtra("subject", subject);

intent.putExtra("gender", gender);

intent.putExtra("qualification", qualification);

startActivity(intent);

}

}

Activity\_main.xml:

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<Spinner

android:id="@+id/subjectSpinner"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:entries="@array/subjects"/>

<RadioGroup

android:id="@+id/genderRadioGroup"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<RadioButton

android:id="@+id/maleRadioButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Male"/>

<RadioButton

android:id="@+id/femaleRadioButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Female"/>

</RadioGroup>

<CheckBox

android:id="@+id/qualificationCheckBox"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Qualification"/>

<Button

android:id="@+id/registerButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Register"/>

</LinearLayout>

DisplayActivity.java:

package com.example.practical14;

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class DisplayActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_displayactivity*);

TextView displayTextView = findViewById(R.id.*displayTextView*);

String subject = getIntent().getStringExtra("subject");

String gender = getIntent().getStringExtra("gender");

boolean qualification = getIntent().getBooleanExtra("qualification", false);

String displayText = "Subject: " + subject + "\nGender: " + gender + "\nQualification: " + (qualification ? "Yes" : "No");

displayTextView.setText(displayText);

}

}

Activity\_displayactivity:

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<TextView

android:id="@+id/displayTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Display Data Here"/>

</LinearLayout>

Strings.xml:

<resources>

<string name = "app\_name">Practical14</string>

<string-array name="subjects">

<item>Mathematics</item>

<item>Science</item>

<item>English</item>

<item>History</item>

</string-array>

</resources>