**Practical 5:**

**Code:**

**1) Java file codes:**

**MainActivity.java**

package com.example.myapplication;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.LinearLayout;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

Spinner subjectSpinner;

RadioGroup genderRadioGroup;

CheckBox[] qualificationCheckBoxes;

Button submitButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

subjectSpinner = findViewById(R.id.subject\_spinner);

genderRadioGroup = findViewById(R.id.gender\_radio\_group);

submitButton = findViewById(R.id.submit\_button);

LinearLayout checkboxContainer = findViewById(R.id.checkbox\_container);

// Get the array of qualifications from resources

String[] qualifications = getResources().getStringArray(R.array.qualification\_array);

// Dynamically create checkboxes for each qualification

qualificationCheckBoxes = new CheckBox[qualifications.length];

for (int i = 0; i < qualifications.length; i++) {

CheckBox checkBox = new CheckBox(this);

checkBox.setText(qualifications[i]);

qualificationCheckBoxes[i] = checkBox;

checkboxContainer.addView(checkBox); // Add checkbox to the layout

}

submitButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

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

boolean[] selectedQualifications = new boolean[qualificationCheckBoxes.length];

for (int i = 0; i < qualificationCheckBoxes.length; i++) {

selectedQualifications[i] = qualificationCheckBoxes[i].isChecked();

}

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

intent.putExtra("subject", selectedSubject);

intent.putExtra("gender", selectedGender);

intent.putExtra("qualifications", selectedQualifications);

startActivity(intent);

}

});

}

}

**ShowActivity.java**

package com.example.myapplication;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class ShowActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_show);

// Get references to TextViews in the layout

TextView subjectTextView = findViewById(R.id.subject\_text\_view);

TextView genderTextView = findViewById(R.id.gender\_text\_view);

TextView qualificationsTextView = findViewById(R.id.qualifications\_text\_view);

// Get the intent that started this activity

Intent intent = getIntent();

// Retrieve data from the intent extras

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

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

boolean[] qualifications = intent.getBooleanArrayExtra("qualifications");

// Set the text of TextViews with the retrieved data

subjectTextView.setText("Subject: " + subject);

genderTextView.setText("Gender: " + gender);

StringBuilder qualificationsText = new StringBuilder("Qualifications:\n");

String[] qualificationTitles = getResources().getStringArray(R.array.qualification\_array);

for (int i = 0; i < qualifications.length; i++) {

if (qualifications[i]) {

qualificationsText.append("- ").append(qualificationTitles[i]).append("\n");

}

}

qualificationsTextView.setText(qualificationsText.toString());

}

}

**2) xml file codes:**

**activity\_main.xml**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<!-- Title for Subject -->

<TextView

android:id="@+id/subject\_title"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Subject"

android:textStyle="bold"

android:layout\_marginTop="16dp"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"/>

<Spinner

android:id="@+id/subject\_spinner"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/subject\_title"

android:layout\_marginTop="8dp"

android:layout\_centerHorizontal="true"

android:entries="@array/subject\_array" />

<!-- Title for Gender -->

<TextView

android:id="@+id/gender\_title"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Gender"

android:textStyle="bold"

android:layout\_below="@id/subject\_spinner"

android:layout\_marginTop="16dp"

android:layout\_centerHorizontal="true"/>

<RadioGroup

android:id="@+id/gender\_radio\_group"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/gender\_title"

android:layout\_marginTop="8dp"

android:layout\_centerHorizontal="true">

<RadioButton

android:id="@+id/male\_radio\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Male" />

<RadioButton

android:id="@+id/female\_radio\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Female" />

</RadioGroup>

<!-- Title for Qualification -->

<TextView

android:id="@+id/qualification\_title"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Qualification"

android:textStyle="bold"

android:layout\_below="@id/gender\_radio\_group"

android:layout\_marginTop="16dp"

android:layout\_centerHorizontal="true"/>

<LinearLayout

android:id="@+id/checkbox\_container"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:layout\_below="@id/qualification\_title"

android:layout\_marginTop="8dp"

android:layout\_centerHorizontal="true"/>

<!-- Submit Button -->

<Button

android:id="@+id/submit\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit"

android:layout\_below="@id/checkbox\_container"

android:layout\_marginTop="16dp"

android:layout\_centerHorizontal="true"/>

</RelativeLayout>

**array.xml**

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

<resources>

<string-array name="subject\_array">

<item>Android Development</item>

<item>Embedded Systems</item>

<item>Digital Marketing</item>

<item>Nano electronics</item>

<!-- Add more subjects as needed -->

</string-array>

<string-array name="qualification\_array">

<item>10th</item>

<item>12th</item>

<item>Diploma</item>

<item>Bachelors Degree</item>

<item>Masters Degree</item>

<item>PhD</item>

<!-- Add more qualifications as needed -->

</string-array>

</resources>

**activity\_show.xml**

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

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

android:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp">

<TextView

android:id="@+id/subject\_text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Subject: "

android:textSize="18sp"/>

<TextView

android:id="@+id/gender\_text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Gender: "

android:textSize="18sp"

android:layout\_marginTop="16dp"/>

<TextView

android:id="@+id/qualifications\_text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Qualifications: "

android:textSize="18sp"

android:layout\_marginTop="16dp"/>

</LinearLayout>

**Output:**

