**Problem Statement : Create an application to display Student Registration Form using a spinner(subject) , radio button(gender) and checkbox(qualification) and show data in the next activity.**

**MainActivity.java**

package com.example.exp14;

import androidx.appcompat.app.AppCompatActivity;

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.EditText;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Spinner;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements AdapterView.OnItemSelectedListener {

EditText e1;

CheckBox c1,c2,c3,c4;

RadioButton rb;

RadioGroup rg;

Button b1;

String[] subNames = {"FOC","AD","DM","IAE","DBM"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

e1 = findViewById(R.id.*text*);

c1 = findViewById(R.id.*cb1*);

c2 = findViewById(R.id.*cb2*);

c3 = findViewById(R.id.*cb3*);

c4 = findViewById(R.id.*cb4*);

Spinner spin = findViewById(R.id.*spin*);

rg = findViewById(R.id.*rG*);

b1 = findViewById(R.id.*button*);

spin.setOnItemSelectedListener(this);

ArrayAdapter<String> aa = new ArrayAdapter<>(this, android.R.layout.*simple\_spinner\_item*,subNames);

aa.setDropDownViewResource(android.R.layout.*simple\_dropdown\_item\_1line*);

spin.setAdapter(aa);

b1.setOnClickListener(view -> {

rb = findViewById(rg.getCheckedRadioButtonId());

String name = e1.getText().toString();

String sub = spin.getSelectedItem().toString();

String gen = rb.getText().toString();

String qua = "";

if(c1.isChecked()){

qua = qua +" " + c1.getText();

}

if(c2.isChecked()){

qua = qua + ","+ c2.getText();

}

if(c3.isChecked()){

qua = qua + ","+ c3.getText();

}

if(c4.isChecked()){

qua = qua +","+ c4.getText();

}

String qua1 = qua;

Bundle bundle = new Bundle();

bundle.putString("name",name);

bundle.putString("sub",sub);

bundle.putString("gen",gen);

bundle.putString("qua",qua1);

Intent i = new Intent(MainActivity.this,MainActivity2.class);

i.putExtras(bundle);

startActivity(i);

});

}

@Override

public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {

Toast.*makeText*(this, subNames[i], Toast.*LENGTH\_SHORT*).show();

}

@Override

public void onNothingSelected(AdapterView<?> adapterView) {

}

}

**activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout 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">

<EditText

android:id="@+id/text"

android:layout\_width="354dp"

android:layout\_height="59dp"

android:hint="Enter your name"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.421"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.08" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="select subject"

android:textSize="15dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.075"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.208"

tools:ignore="TextSizeCheck" />

<Spinner

android:id="@+id/spin"

android:layout\_width="354dp"

android:layout\_height="59dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.421"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.3"

tools:ignore="SpeakableTextPresentCheck" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="select gender"

android:textSize="15dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.074"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.42"

tools:ignore="TextSizeCheck" />

<RadioGroup

android:id="@+id/rG"

android:layout\_width="378dp"

android:layout\_height="57dp"

android:orientation="horizontal"

android:showDividers="beginning|end"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.727"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.523">

<RadioButton

android:id="@+id/male"

android:layout\_width="104dp"

android:layout\_height="match\_parent"

android:checked="true"

android:text="Male" />

<RadioButton

android:id="@+id/radioButton"

android:layout\_width="121dp"

android:layout\_height="match\_parent"

android:text="Female" />

</RadioGroup>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="select qualification"

android:textSize="15dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.084"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.621"

tools:ignore="TextSizeCheck" />

<CheckBox

android:id="@+id/cb1"

android:layout\_width="107dp"

android:layout\_height="50dp"

android:text="SSC"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.111"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.713" />

<CheckBox

android:id="@+id/cb2"

android:layout\_width="107dp"

android:layout\_height="50dp"

android:text="HSC"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.72"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.713" />

<CheckBox

android:id="@+id/cb3"

android:layout\_width="107dp"

android:layout\_height="50dp"

android:text="BE/BTech"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.111"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.829" />

<CheckBox

android:id="@+id/cb4"

android:layout\_width="107dp"

android:layout\_height="50dp"

android:text="PG"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.72"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.829" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.468"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.948" />

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity2.java**

package com.example.exp14;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.os.Bundle;

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

TextView t1,t2,t3,t4;

@SuppressLint({"MissingInflatedId", "SetTextI18n"})

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main2*);

Bundle bundle = getIntent().getExtras();

if(bundle!=null)

{

String name = bundle.getString("name");

String sub = bundle.getString("sub");

String gen = bundle.getString("gen");

String qua = bundle.getString("qua");

t1 = findViewById(R.id.*txt1*);

t2 = findViewById(R.id.*txt2*);

t3 = findViewById(R.id.*txt3*);

t4 = findViewById(R.id.*txt4*);

t1.setText("Name :" + name);

t2.setText("Subject :"+sub);

t3.setText("Gender :"+gen);

t4.setText("Qualification :"+qua);

}

}

}

**activity\_main2.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout 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=".MainActivity2">

<TextView

android:id="@+id/txt1"

android:layout\_width="381dp"

android:layout\_height="77dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.542"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.13" />

<TextView

android:id="@+id/txt2"

android:layout\_width="381dp"

android:layout\_height="77dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.533"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.304" />

<TextView

android:id="@+id/txt3"

android:layout\_width="381dp"

android:layout\_height="77dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.466"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.475" />

<TextView

android:id="@+id/txt4"

android:layout\_width="381dp"

android:layout\_height="142dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.466"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.721" />

</androidx.constraintlayout.widget.ConstraintLayout>