

## Exp 4: Registration Form

1. Create An Empty Views Project
2. Activity\_Main.xml

### RelativeLayout (id: main)

```
|
|
|— TextView (id: name_text)
|
|
|— EditText (id: name)
|   └─ below: @id/name_text
|
|
|— TextView (id: gender_text)
|   └─ below: @id/name
|
|
|— RadioGroup (id: radiogroup)
|   └─ below: @id/gender_text
|       └─ RadioButton (id: male)
|           └─ RadioButton (id: female)
|               └─ RadioButton (id: other)
|
|
|— TextView (id: quali)
|   └─ below: @id/radiogroup
|
|
|— CheckBox (id: graduate)
|   └─ below: @id/quali
|
|
|— CheckBox (id: postgraduate)
|   └─ below: @id/graduate
|
|
|— TextView (id: course_text)
|   └─ below: @id/postgraduate
|
```

- └─ Spinner (id: spinner)
- |   └─ below: @id/course\_text
- |
- └─ Button (id: submit)
  - └─ below: @id/spinner

### 3. Display\_Activity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".display">
    <TextView
        android:id="@+id/textdisplay"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:textSize="20sp"/>
</LinearLayout>
```

### 4. Activity\_Main.Java

```
MainActivity (extends AppCompatActivity)
|
| └─ UI Elements (Declared as Private Fields)
|   | └─ EditText name
|   | └─ RadioGroup radiogroupgender
|   | └─ CheckBox cbgrad
|   | └─ CheckBox cbpostgrad
|   | └─ Button btsubmit
|   └─ Spinner spin
|
| └─ onCreate(Bundle savedInstanceState)
```

- |   └─ setContentView(R.layout.activity\_main)
- |   └─ Initialize UI elements using findViewById
- |   └─ Create and set ArrayAdapter for Spinner
- |   └─ Set onClickListener on submit button to call submitform()
- |
- └─ submitform() // Method to collect and pass form data
  - └─ Fetch text from EditText (name)
  - └─ Fetch selected item from Spinner
  - └─ Get selected RadioButton from RadioGroup
    - └─ If none selected, use default "Gender Not Selected"
  - └─ Check which CheckBoxes are selected
  - └─ Create Intent to start display activity
    - └─ Pass name, gender, qualifications, and specialisation as extras

```
package com.example.infoform;
```

```
import android.content.Intent;
import android.os.Bundle;
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;
```

```
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
import java.net.SocketImpl;
```

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

```
    private EditText name;
    private RadioGroup radiogroupgender;
    private CheckBox cbgrad,cbpostgrad;
    private Button btsubmit;
    private Spinner spin;
```

```
    @Override
```

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

```

name=(EditText) findViewById(R.id.name);
radiogroupgender=(RadioGroup) findViewById(R.id.radiogroup);
cbgrad=(CheckBox) findViewById(R.id.graduate);
cbpostgrad=(CheckBox) findViewById(R.id.postgraduate);
btsubmit=(Button) findViewById(R.id.submit);
spin=(Spinner) findViewById(R.id.spinner);

String[] subjects ={"Computer Science","E&TC","Information Technology"};
ArrayAdapter<String> adapter=new ArrayAdapter<>(this,
android.R.layout.simple_spinner_dropdown_item,subjects);
spin.setAdapter(adapter);

btsubmit.setOnClickListener(v->submitform());
}

private void submitform()
{
    String subname=name.getText().toString(); //FETCH THE NAME
    String sub=spin.getSelectedItem().toString(); //FETCH THE SPINNER SELECTION

    //FETCH THE SELECTED GENDER
    int selectedgenderid=radiogroupgender.getCheckedRadioButtonId();
    RadioButton selectedradiobutton=findViewById(selectedgenderid);

    String gender;
    //If no gender is selected then
    if(selectedradiobutton != null)
    {
        gender=selectedradiobutton.getText().toString();
    }
    else
    {
        gender="Gender Not Selected";
    }

    //Selecting the qualifications
    StringBuilder qualifications= new StringBuilder();
    if(cbgrad.isChecked())qualifications.append("Graduate");
    if(cbpostgrad.isChecked())qualifications.append("Post Graduate");

    //Sending this Seleted Data to Display_Activity

    Intent intent=new Intent(MainActivity.this, display.class);
    intent.putExtra("Name:",subname);
    intent.putExtra("Gender:",gender);
    intent.putExtra("Qualifications",qualifications.toString().trim());
    intent.putExtra("Specialisation",sub);

```

```
        startActivity(intent);
    }}
```

## 5. Display.java

### display (extends AppCompatActivity)

```
|
|  └─ Field:
|    └─ TextView tvdisplay
|
|  └─ Method: onCreate(Bundle savedInstanceState)
|    └─ setContentView(R.layout.activity_display)
|    └─ Initialize tvdisplay using findViewById(R.id.textdisplay)
|    |
|    └─ Retrieve Intent extras:
|      └─ name ← getStringExtra("subname")
|      └─ gender ← getStringExtra("gender")
|      └─ qualifications ← getStringExtra("qualifications")
|      └─ specialisation ← getStringExtra("sub")
|      |
|      └─ Construct displayText:
|        └─ Concatenate name, gender, qualifications, specialisation into one string
|        |
|        └─ Set text to TextView:
|          └─ tvdisplay.setText(displayText)
```

```
package com.example.infoform;
```

```
import android.os.Bundle;
```

```
import android.widget.TextView;
```

```
import androidx.activity.EdgeToEdge;
```

```

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;


public class display extends AppCompatActivity {


    private TextView tvdisplay;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_display);


        tvdisplay=(TextView) findViewById(R.id.textdisplay);

        String name=getIntent().getStringExtra("subname");

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

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

        String specialisation=getIntent().getStringExtra("sub");


        String displaytext="Name:" + name + "\n" + "Gender:" + gender + "\n" +

            "Qualifications+" + qualifications + "\n" + "Specialisation" + specialisation;


        tvdisplay.setText(displaytext);

    }

}

```