

#### **Department of Electronics & Telecommunication Engineering**

**BATCH AND ROLL NO: P8 42405** 

**EXPERIMENT NO.: 04** 

**TITLE:** Design a mobile application to create registration application which having spinner (subject), radio button (gender), qualification (check box), first insert the value and then show the data in show activity.

#### **DATE OF PERFORMANCE:**

#### **DATE OF CHECKING:**

**Title:** Design a mobile application to create registration application which having spinner (subject), radio button (gender), qualification (check box), first insert the value and then show the data in show activity.

#### **Requirements:**

- 1 Android studio
- 2. WordPress Themes and plugins.

#### **Theory:**

In android, Spinner is a view that allows a user to select one value from the list of values. The spinner in android will behave same as a dropdown list in other programming languages. Generally, the android spinners will provide a quick way to select one item from the list of values and it will show a dropdown menu with a list of all values when we click or tap on it. By default, the android spinner will show its currently selected value and by using Adapter we can bind the items to spinner objects. We can populate our Spinner control with list of choices by defining an Array Adapter in our Activity file. Generally, the Adapter pulls data from sources such as an array or database and converts each item into a result view and that's placed into the list. Following is the pictorial representation example of simple spinner.



In android, Radio Button is a two-states button that can be either checked or unchecked and it's the same as Checkbox control, except that it will allow only one option to select from the group of options. The user can press or click on the radio button to make it select. In android, Checkbox control allow users to change the state of control either Checked or Unchecked but the radio button cannot be unchecked once it is checked. Generally, we can use Radio Button controls in an android application to allow users to select only one option

# PICT REPORTED TO THE PURE THE

#### PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE – 411043

## **Department of Electronics & Telecommunication Engineering**

from the set of values. Following is the pictorial representation of using Radio Button control in android applications.



In android, Checkbox is a two-state button that can be either checked (ON) or unchecked (OFF) and it will allow users to toggle between the two states (ON / OFF) based on the requirements. Generally, we can use multiple Checkbox controls in android application to allow users to select one or more options from the set of values.

Following is the pictorial representation of using Checkbox control in android applications.



Here are the general steps to create registration form in Android Studio:

- 1. First, we create a new project and add an empty activity.
- 2. We use Constraint Layout for this sample, check for all the constraints after you finish.
- 3. Add simple spinner for subject.
- 4. Add radio button for gender.
- 5. Add check box for qualification.
- 6. After inserting the value and then show the data in show activity.



# **Department of Electronics & Telecommunication Engineering**

#### Code:

#### Activity\_main.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:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Abhijeet Gupta 42129" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name:"/>
  <EditText
    android:id="@+id/name_edit_text"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:hint="Enter your name" />
  <TextView
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Subject:" />
  <Spinner
    android:id="@+id/subject_spinner"
    android:layout width="match parent"
    android:layout_height="48dp"
    android:contentDescription="selectfield" />
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Gender:" />
  <RadioGroup
    android:id="@+id/gender_radio_group"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <RadioButton
    android:id="@+id/female_radio_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Female"
    />
    < Radio Button
      android:id="@+id/male_radio_button"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
```

# **Department of Electronics & Telecommunication Engineering**

```
android:text="Male" />
  </RadioGroup>
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Qualification:"/>
  <CheckBox
    android:id="@+id/qualification_check_box_1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Bachelor's degree" />
  <CheckBox
    android:id="@+id/qualification_check_box_2"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Master's degree" />
  <CheckBox
    android:id="@+id/qualification_check_box_3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="PhD" />
  <Button
    android:id="@+id/register_button"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Register"
    android:onClick="onClickRegister"/>
  <TextView
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="72dp"
    android:text=""/>
</LinearLayout>
MainActivity.java
package com.example.assign4;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

setContentView(R.layout.activity\_main);

# **Department of Electronics & Telecommunication Engineering**

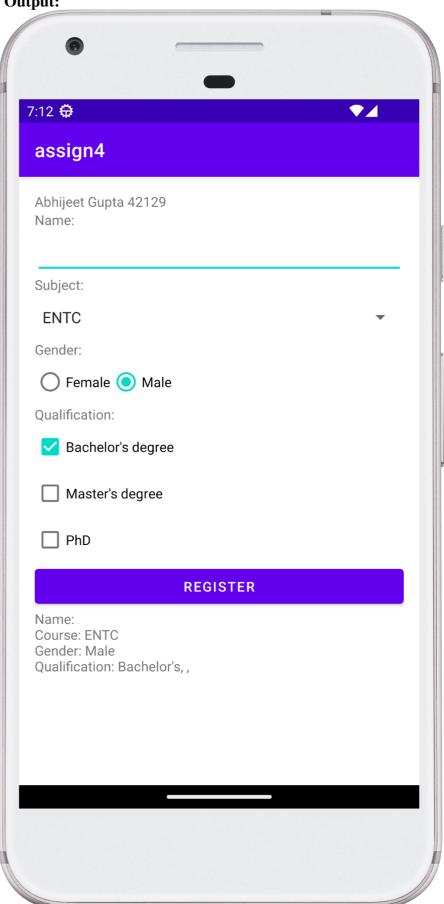
```
Spinner spinner = findViewById(R.id.subject spinner);
     ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(this,
         R.array.spinner items, android.R.layout.simple spinner item);
    adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    spinner.setAdapter(adapter);
  public void onClickRegister(View view){
    EditText nameEdit = findViewById(R.id.name edit text);
    String name = nameEdit.getText().toString();
    Spinner spinner = findViewById(R.id.subject spinner);
    String course = spinner.getSelectedItem().toString();
    RadioGroup rg = findViewById(R.id.gender_radio_group);
    String gender = "";
    switch(rg.getCheckedRadioButtonId()) {
       case R.id.male_radio_button:
         gender = "Male";
         break;
       case R.id.female_radio_button:
         gender = "Female";
         break:
    CheckBox q1 = findViewById(R.id.qualification_check_box_1);
    CheckBox q2 = findViewById(R.id.qualification_check_box_2);
    CheckBox q3 = findViewById(R.id.qualification_check_box_3);
    String d1="", d2="", d3="";
    if(q1.isChecked()) {
       d1 = "Bachelor's";
    if (q2.isChecked()) {
       d2 = "Master's";
    if (q3.isChecked()) {
       d3 = "PhD";
    String finalOut = "";
    finalOut += ("Name: " + name + "\n");
     finalOut += ("Course: " + course + "\n");
     finalOut += ("Gender: " + gender + "\n");
    finalOut += ("Qualification: " + d1 + ", " + d2 + ", " + d3);
    TextView output = findViewById(R.id.textView);
    output.setText(finalOut);
RES folder string array:
<resources>
  <string name="app_name">assign4</string>
  <string-array name="spinner items">
     <item>Computer Science</item>
     <item>ENTC</item>
     <item>IT</item>
  </string-array>
```

</resources>



# **Department of Electronics & Telecommunication Engineering**

# **Output:**





# PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE – 411043 Department of Electronics & Telecommunication Engineering

CONCLUSION:		
•••••	•••••	 ••••••
•••••		 •••••
		 •••••