

BMI calculator :

activity_main.xml

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

    <TextView
        android:layout_width="214dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="105dp"
        android:layout_marginBottom="550dp"
        android:text="BMI Calculator"
        android:textAlignment="center"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="143dp"
        android:layout_height="34dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="253dp"
        android:layout_marginBottom="433dp"
        android:text="Weight (in kg):"
        android:textAlignment="center"
        android:textSize="20sp"
        android:textStyle="bold" />

    <EditText
        android:id="@+id/editTextText"
        android:layout_width="211dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="30dp"
        android:layout_marginBottom="437dp"
        android:ems="10"
        android:inputType="text"
        android:textSize="20sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
```

```
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="257dp"
    android:layout_marginBottom="369dp"
    android:text="Height (in cm):"
    android:textAlignment="center"
    android:textSize="20sp"
    android:textStyle="bold" />
```

<EditText

```
    android:id="@+id/editTextText2"
    android:layout_width="212dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="27dp"
    android:layout_marginBottom="355dp"
    android:ems="10"
    android:inputType="text"
    android:textSize="20sp"
    android:textStyle="bold" />
```

<Button

```
    android:id="@+id/button"
    android:layout_width="169dp"
    android:layout_height="67dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="128dp"
    android:layout_marginBottom="223dp"
    android:text="Get BMI "
    android:textSize="20sp"
    android:textStyle="bold" />
```

<TextView

```
    android:id="@+id/textView3"
    android:layout_width="107dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="268dp"
    android:layout_marginBottom="159dp"
    android:text="Your BMI: "
    android:textSize="20sp"
    android:textStyle="bold" />
```

<EditText

```
    android:id="@+id/editTextText3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="42dp"
    android:layout_marginBottom="149dp"
    android:ems="10"
    android:inputType="text"
    android:textAlignment="textStart"
    android:textSize="20sp"
    android:textStyle="bold" />
```

```
</RelativeLayout>
```

MainActivity.java

```
package com.example.bmicalculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText wtval, htval;
    Button btn;
    TextView res;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        wtval = findViewById(R.id.editTextText);
        htval = findViewById(R.id.editTextText2);
        btn = findViewById(R.id.button);
        res = findViewById(R.id.editTextText3);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Float wt = Float.parseFloat(wtval.getText().toString());
                Float ht_m =
Float.parseFloat(htval.getText().toString())/100;
                Float bmi = wt/ (ht_m*ht_m);
                if(bmi < 18.5)
                    res.setText(""+bmi+" \n Under Weight ");
                else if (bmi >= 18.5 && bmi < 24.9)
                    res.setText(""+bmi+" \n Healthy ");
                else if (bmi >= 24.9 && bmi < 30)
                    res.setText(""+bmi+" \n Over Weight ");
                else if (bmi>=30)
                    res.setText(""+bmi+" \n Obesity ");
            }
        });
    }
}
```

Registration form:

activity_main.xml

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

    <TextView
        android:id="@+id/header"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="69dp"
        android:layout_marginBottom="592dp"
        android:text="Registration Form"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/nameLbl"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.605"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/nameLbl"
        android:layout_width="68dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="326dp"
        android:layout_marginBottom="498dp"
        android:text="Name"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/FNameLbl"
        app:layout_constraintEnd_toStartOf="@+id/NameBox"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/header" />

    <AutoCompleteTextView
        android:id="@+id/PlaceBox"
        android:layout_width="215dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="59dp"
        android:layout_marginBottom="199dp"
        android:hint="Enter Location"
        android:minHeight="48dp"
        app:layout_constraintBottom_toTopOf="@+id/SubmitBtn"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/PlaceLbl"
        app:layout_constraintTop_toBottomOf="@+id/GenderGroup" />

    <TextView
```

```
    android:id="@+id/PlaceLbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="315dp"
    android:layout_marginBottom="210dp"
    android:text="Place of Birth"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/SubmitBtn"
    app:layout_constraintEnd_toStartOf="@+id/PlaceBox"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/GenderGroup" />
```

<TextView

```
    android:id="@+id/GenderLbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="336dp"
    android:layout_marginBottom="308dp"
    android:text="Gender"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/PlaceLbl"
    app:layout_constraintEnd_toStartOf="@+id/GenderGroup"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/FNameLbl" />
```

<TextView

```
    android:id="@+id/FNameLbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="314dp"
    android:layout_marginBottom="391dp"
    android:text="Father Name"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/GenderLbl"
    app:layout_constraintEnd_toStartOf="@+id/FNameBox"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/nameLbl" />
```

<RadioGroup

```
    android:id="@+id/GenderGroup"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="169dp"
    android:layout_marginBottom="265dp"
    app:layout_constraintBottom_toTopOf="@+id/PlaceBox"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/GenderLbl"
    app:layout_constraintTop_toBottomOf="@+id/FNameBox">
```

<RadioButton

```
        android:id="@+id/MaleBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:text="Male" />

        <RadioButton
            android:id="@+id/FemaleBtn"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Female" />

    </RadioGroup>

    <EditText
        android:id="@+id/NameBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="81dp"
        android:layout_marginBottom="481dp"
        android:ems="10"
        android:hint="Enter Name"
        android:inputType="text"
        android:minHeight="48dp"
        app:layout_constraintBottom_toTopOf="@+id/FNameBox"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/nameLbl"
        app:layout_constraintTop_toBottomOf="@+id/header" />

    <EditText
        android:id="@+id/FNameBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="80dp"
        android:layout_marginBottom="388dp"
        android:ems="10"
        android:hint="Enter Father Name"
        android:inputType="text"
        android:minHeight="48dp"
        app:layout_constraintBottom_toTopOf="@+id/GenderGroup"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/FNameLbl"
        app:layout_constraintTop_toBottomOf="@+id/NameBox" />

    <Button
        android:id="@+id/SubmitBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="182dp"
        android:layout_marginBottom="103dp"
        android:text="Submit"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/PlaceBox" />

</RelativeLayout>

```

MainActivity.java:

```
package com.example.registrationform;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    EditText name, fname;
    AutoCompleteTextView places;
    RadioGroup rg;
    RadioButton rb;
    Button btn;
    String[] Locations =
{"Bangalore", "Delhi", "Pune", "Bombay", "Chennai", "Hyderabad", "Calcutta"};
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = findViewById(R.id.NameBox);
        fname = findViewById(R.id.FNameBox);
        places = findViewById(R.id.PlaceBox);
        btn = findViewById(R.id.SubmitBtn);
        ArrayAdapter adapter = new ArrayAdapter(this,
android.R.layout.select_dialog_item, Locations);
        places.setThreshold(1);
        places.setAdapter(adapter);
        rg = findViewById(R.id.GenderGroup);
        rg.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(RadioGroup group, int checkedId) {
                rb = findViewById(checkedId);
            }
        });
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String res1 = "Name: "+name.getText().toString()+"\nFather
Name: "+fname.getText().toString()+"\nGender: "+rb.getText()+"\nPlace of
Birth: "+places.getText().toString();
                Toast.makeText(MainActivity.this, res1, Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

Elective Selection:

activity_main.xml

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

    <TextView
        android:id="@+id/header"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="65dp"
        android:layout_marginBottom="640dp"
        android:text="Electives Selection"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/nameBox"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/nameLbl"
        android:layout_width="128dp"
        android:layout_height="28dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="280dp"
        android:layout_marginBottom="512dp"
        android:text="Student Name"
        android:textSize="16sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/rollnoLbl"
        app:layout_constraintEnd_toStartOf="@+id/nameBox"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/header" />

    <EditText
        android:id="@+id/nameBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="64dp"
        android:layout_marginBottom="506dp"
        android:ems="10"
        android:hint="Enter Student Name"
        android:inputType="text"
        android:minHeight="48dp"
        app:layout_constraintBottom_toTopOf="@+id/rollnoBox"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/nameLbl"
        app:layout_constraintTop_toBottomOf="@+id/header" />
```



```
<TextView
    android:id="@+id/rollnoLbl"
    android:layout_width="77dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="312dp"
    android:layout_marginBottom="423dp"
    android:text="Roll No"
    android:textSize="16sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/delbl"
    app:layout_constraintEnd_toStartOf="@+id/rollnoBox"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/nameLbl" />
```

```
<EditText
    android:id="@+id/rollnoBox"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="64dp"
    android:layout_marginBottom="410dp"
    android:ems="10"
    android:hint="Enter Student RollNo"
    android:inputType="text"
    android:minHeight="48dp"
    app:layout_constraintBottom_toTopOf="@+id/delbl"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/rollnoLbl"
    app:layout_constraintTop_toBottomOf="@+id/nameBox" />
```

```
<TextView
    android:id="@+id/delbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="131dp"
    android:layout_marginBottom="334dp"
    android:text="Discipline Elective"
    android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/electivesBox"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.054"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/rollnoLbl" />
```

```
<Spinner
    android:id="@+id/electivesBox"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_marginBottom="267dp"
    android:minHeight="48dp"
    app:layout_constraintBottom_toTopOf="@+id/SubmitBtn"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
```

```

        app:layout_constraintTop_toBottomOf="@id/delbl" />

<Button
    android:id="@+id/SubmitBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="275dp"
    android:layout_marginBottom="192dp"
    android:onClick="displayDetails"
    android:text="Submit"
    app:layout_constraintBottom_toTopOf="@+id/result"
    app:layout_constraintEnd_toStartOf="@+id/ResetBtn"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/electivesBox" />

<Button
    android:id="@+id/ResetBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="109dp"
    android:layout_marginBottom="188dp"
    android:onClick="resetDetails"
    android:text="Reset"
    app:layout_constraintBottom_toTopOf="@+id/result"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toEndOf="@+id/SubmitBtn"
    app:layout_constraintTop_toBottomOf="@+id/electivesBox" />

<TextView
    android:id="@+id/result"
    android:layout_width="215dp"
    android:layout_height="114dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="114dp"
    android:layout_marginBottom="39dp"
    android:gravity="center_horizontal"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/SubmitBtn" />
</RelativeLayout>

```

strings.xml

```

<resources>
    <string name="app_name">DESelectionSpinner</string>
    <string-array name="courses">
        <item>Mobile Application Development</item>
        <item>Java Full Stack</item>
        <item>.Net Full Stack</item>
    </string-array>
</resources>

```

MainActivity.java

```
package com.example.electiveselection;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    EditText name,rollno;
    Spinner elec;
    TextView res;
    String selectedCourse;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = findViewById(R.id.nameBox);
        rollno = findViewById(R.id.rollnoBox);
        elec = findViewById(R.id.electivesBox);
        res = findViewById(R.id.result);
        ArrayAdapter adapter = new ArrayAdapter(this,

android.R.layout.simple_spinner_item, getResources().getStringArray(R.array.
courses));

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_it
em);
        elec.setAdapter(adapter);
        elec.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view,
int position, long id) {
                selectedCourse =
parent.getItemAtPosition(position).toString();
            }
            @Override
            public void onNothingSelected(AdapterView<?> parent) {
            }
        });
    }
    public void displayDetails(View v) {
        res.setText("Name: "+name.getText().toString()+"\nRoll No:
"+rollno.getText().toString()+"\nSelected Course: "+selectedCourse);
    }
    public void resetDetails(View v){
        name.setText("");
        rollno.setText("");
        res.setText("");
    }
}
```

Vote eligibility

activity_main.xml

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

    <TextView
        android:layout_width="166dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="125dp"
        android:layout_marginBottom="626dp"
        android:text="Vote Eligibility"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="307dp"
        android:layout_marginBottom="526dp"
        android:text="User name"
        android:textSize="18sp" />

    <EditText
        android:id="@+id/editTextText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="41dp"
        android:layout_marginBottom="520dp"
        android:ems="10"
        android:inputType="text"
        android:text="Enter your name"
        android:textColor="#BFBABA" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="137dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="260dp"
        android:layout_marginBottom="446dp"
        android:text="Aadhar number"
        android:textSize="18sp" />
</RelativeLayout>
```

```

<EditText
    android:id="@+id/editTextText2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="42dp"
    android:layout_marginBottom="441dp"
    android:ems="10"
    android:inputType="text"
    android:text="Enter aadhar no."
    android:textColor="#AEABAB" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="106dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="287dp"
    android:layout_marginBottom="370dp"
    android:text="Date of Birth"
    android:textSize="18sp" />

<Button
    android:id="@+id/button"
    android:layout_width="130dp"
    android:layout_height="70dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="161dp"
    android:layout_marginBottom="224dp"
    android:text="Verify"
    android:onClick="checkEligibility"
    android:textSize="20sp" />

<EditText
    android:id="@+id/editTextText3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="42dp"
    android:layout_marginBottom="364dp"
    android:ems="10"
    android:inputType="text"
    android:text="Select date"
    android:textColor="#B6B0B0" />

</RelativeLayout>

```

MainActivity.java

```

package com.example.voteeligibility;

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.app.DatePickerDialog;
import android.content.Intent;

```

```

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import java.util.Calendar;
public class MainActivity extends AppCompatActivity {
    EditText name, num, date;
    Button btn;
    int diff;
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = findViewById(R.id.editTextText);
        num = findViewById(R.id.editTextText2);
        date = findViewById(R.id.editTextText3);
        date.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Calendar c = Calendar.getInstance();
                int pYear = c.get(Calendar.YEAR);
                int pMonth = c.get(Calendar.MONTH);
                int pDate = c.get(Calendar.DATE);
                DatePickerDialog dialog = new
DatePickerDialog(MainActivity.this,
android.R.style.Theme_DeviceDefault_DialogWhenLarge, new
                DatePickerDialog.OnDateSetListener() {
                    @Override
                    public void onDateSet(DatePicker view, int
year, int month, int dayOfMonth) {
date.setText(dayOfMonth+"/"+(month+1)+"/"+year);
                        diff = pYear - year;
                    }
                },pYear, pMonth, pDate);
                dialog.show();
            }
        });
    }
    public void checkEligibility(View v) {
        String s_name = name.getText().toString();
        String s_num = num.getText().toString();
        Intent in = new Intent(getApplicationContext(),
MainActivity2.class);
        in.putExtra("NAME",s_name);
        in.putExtra("AADHAR",s_num);
        in.putExtra("AGE",diff);
        startActivity(in);
    }
}

```

activity_result.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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/textView5"
            android:layout_width="371dp"
            android:layout_height="134dp"
            android:layout_alignParentEnd="true"
            android:layout_alignParentBottom="true"
            android:layout_marginEnd="21dp"
            android:layout_marginBottom="416dp"
            android:textSize="16sp"
            android:textStyle="bold" />
    </RelativeLayout>

```

MainActivity2.java:

```

package com.example.voteeligibility;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
    TextView res;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_result);
        res = findViewById(R.id.textView5);
        Intent intt = getIntent();
        String r_name = intt.getStringExtra("NAME");
        String r_aadhar = intt.getStringExtra("AADHAR");
        int age = intt.getIntExtra("AGE", 0);
        if (age >= 18)
            res.setText("Name: "+r_name+"\nAadhar Number: "+r_aadhar+"\n\nYou are eligible to vote");
        else
            res.setText("Name: "+r_name+"\nAadhar Number: "+r_aadhar+"\n\nYou are not eligible to vote");
    }
}

```

loginsignup(practice program):

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"
    android:padding="16dp">

    <TextView
        android:id="@+id/textViewSignupHeading"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Sign Up"
    >

```

```

        android:textSize="24sp"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="32dp"/>

<EditText
    android:id="@+id/editTextEmail"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Email"
    android:layout_below="@id/textViewSignupHeading" />

<EditText
    android:id="@+id/editTextPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/editTextEmail"
    android:layout_marginTop="16dp"
    android:hint="Password"
    android:inputType="textPassword" />

<EditText
    android:id="@+id/editTextConfirmPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/editTextPassword"
    android:layout_marginTop="16dp"
    android:hint="Confirm Password"
    android:inputType="textPassword" />

<Button
    android:id="@+id/buttonSignUp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/editTextConfirmPassword"
    android:layout_marginTop="16dp"
    android:layout_centerHorizontal="true"
    android:text="Sign Up" />

</RelativeLayout>

```

MainActivity.java

```

package com.example.loginsignup;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private EditText editTextEmail, editTextPassword,
    editTextConfirmPassword;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}

```



```

        setContentView(R.layout.activity_main);

        editTextEmail = findViewById(R.id.editTextEmail);
        editTextPassword = findViewById(R.id.editTextPassword);
        editTextConfirmPassword =
findViewById(R.id.editTextConfirmPassword);

        Button buttonSignUp = findViewById(R.id.buttonSignUp);
        buttonSignUp.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String email = editTextEmail.getText().toString().trim();
                String password =
editTextPassword.getText().toString().trim();
                String confirmPassword =
editTextConfirmPassword.getText().toString().trim();

                if (password.equals(confirmPassword)) {
                    // Passwords match, navigate to login activity
                    Intent intent = new Intent(MainActivity.this,
LoginActivity.class);
                    startActivity(intent);
                } else {
                    Toast.makeText(MainActivity.this, "Passwords do not
match", Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}

```

activity_login.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"
    android:padding="16dp">

    <TextView
        android:id="@+id/textViewLoginHeading"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Login"
        android:textSize="24sp"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="32dp"/>

    <EditText
        android:id="@+id/editTextLoginEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Email"
        android:layout_below="@id/textViewLoginHeading" />

    <EditText
        android:id="@+id/editTextLoginPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/editTextLoginEmail"

```

```

        android:layout_marginTop="16dp"
        android:hint="Password"
        android:inputType="textPassword" />

        <Button
            android:id="@+id/buttonLogin"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@id/editTextLoginPassword"
            android:layout_marginTop="16dp"
            android:layout_centerHorizontal="true"
            android:text="Login" />

        <TextView
            android:id="@+id/textViewMessage"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@id/buttonLogin"
            android:layout_marginTop="16dp"
            android:layout_centerHorizontal="true"
            android:textSize="20sp"
            android:textColor="#FF0000"
            android:visibility="gone" />

    </RelativeLayout>

```

LoginActivity.java

```

package com.example.loginsignup;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class LoginActivity extends AppCompatActivity {

    private EditText editTextLoginEmail, editTextLoginPassword;
    private TextView textViewMessage;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);

        editTextLoginEmail = findViewById(R.id.editTextLoginEmail);
        editTextLoginPassword = findViewById(R.id.editTextLoginPassword);
        textViewMessage = findViewById(R.id.textViewMessage);

        Button buttonLogin = findViewById(R.id.buttonLogin);
        buttonLogin.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String email =
editTextLoginEmail.getText().toString().trim();
                String password =
editTextLoginPassword.getText().toString().trim();

```

```
        // Dummy check for successful login
        if (email.equals(email) && password.equals(password)) {
            textViewMessage.setVisibility(View.VISIBLE);
            textViewMessage.setText("Successful login");
        } else {
            textViewMessage.setVisibility(View.VISIBLE);
            textViewMessage.setText("Wrong credentials");
        }
    }
});
}
}
```