Aim: Design an application to perform the arithmetic operations by reading the input from user

```
Solution:
```

```
activity main.xml:
```

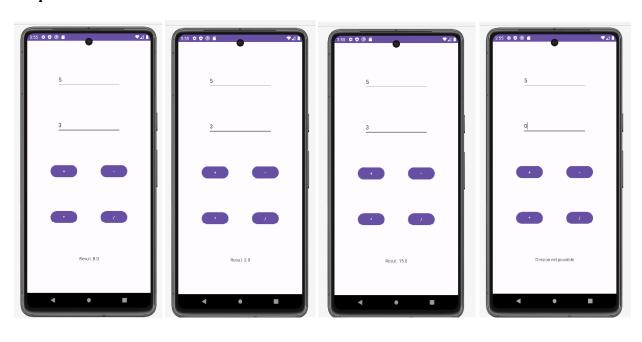
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
  <EditText
   android:id="@+id/aBox"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:minHeight="48dp"
   android:minWidth="48dp"
   android:hint="Enter a Value"
   android:inputType="text"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout constraintTop toTopOf="parent"
   app:layout_constraintBottom_toTopOf="@+id/bBox"/>
  <EditText
   android:id="@+id/bBox"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:hint="Enter b Value"
   android:inputType="text"
   android:minWidth="48dp"
   android:minHeight="48dp"
   app:layout_constraintBottom_toTopOf="@+id/addBtn"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/aBox" />
  <Button
   android:id="@+id/addBtn"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="+"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintEnd_toStartOf="@+id/subBtn"
   app:layout_constraintBottom_toTopOf="@+id/mulBtn"
```

```
app:layout_constraintTop_toBottomOf="@+id/bBox"/>
 <Button
   android:id="@+id/subBtn"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="-"
   tools:layout_editor_absoluteX="230dp"
   tools:layout_editor_absoluteY="322dp"
   app:layout_constraintBottom_toTopOf="@+id/divBtn"
   app:layout_constraintStart_toEndOf="@+id/addBtn"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/bBox"/>
 <Button
   android:id="@+id/mulBtn"
   android:layout_width="wrap_content"
   android:layout height="wrap content"
   android:text="*"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/addBtn"
   app:layout_constraintEnd_toStartOf="@+id/divBtn"
   app:layout_constraintBottom_toTopOf="@+id/result"/>
 <Button
   android:id="@+id/divBtn"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="/"
   tools:layout_editor_absoluteX="230dp"
   tools:layout_editor_absoluteY="322dp"
   app:layout_constraintBottom_toTopOf="@+id/result"
   app:layout_constraintStart_toEndOf="@+id/mulBtn"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/subBtn" />
 <TextView
   android:id="@+id/result"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout constraintTop toBottomOf="@+id/divBtn" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```
package com.example.arith;
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;
public class MainActivity extends AppCompatActivity {
  EditText aval, bval;
  Button add, sub, mul, div;
  TextView res;
  Double a, b;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   aval = findViewById(R.id.aBox);
   bval = findViewById(R.id.bBox);
   add = findViewById(R.id.addBtn);
   sub = findViewById(R.id.subBtn);
   mul = findViewById(R.id.mulBtn);
   div = findViewById(R.id.divBtn);
   res = findViewById(R.id.result);
   add.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
        a = Double.parseDouble(aval.getText().toString());
        b = Double.parseDouble(bval.getText().toString());
        res.setText("Result: "+(a+b));
     }
   });
   sub.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
        a = Double.parseDouble(aval.getText().toString());
        b = Double.parseDouble(bval.getText().toString());
        res.setText("Result: "+(a-b));
     }
   });
   mul.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
        a = Double.parseDouble(aval.getText().toString());
        b = Double.parseDouble(bval.getText().toString());
        res.setText("Result: "+(a*b));
```

```
}
});
div.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        a = Double.parseDouble(aval.getText().toString());
        b = Double.parseDouble(bval.getText().toString());
        if(b!=0)
            res.setText("Result: "+(a/b));
        else
            res.setText("Division not possible");
        }
    });
}
```



Aim: Design an application to calculate the body mass index by reading the input from user

Solution: activity main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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:text="BMI Calculator"
   android:textSize="48dp"
   android:textStyle="bold"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toTopOf="parent"
   app:layout constraintBottom toTopOf="@+id/wtLbl" />
  <TextView
   android:id="@+id/wtLbl"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Weight (in Kg)"
   android:textStyle="bold"
   tools:layout_editor_absoluteX="53dp"
   tools:layout editor absoluteY="178dp"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintEnd_toStartOf="@+id/wtBox"
   app:layout_constraintBottom_toTopOf="@+id/htLbl"
   app:layout constraintTop_toBottomOf="@+id/header" />
  <EditText
    android:id="@+id/wtBox"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:hint="Enter Weight"
   android:inputType="text"
   android:minHeight="48dp"
   tools:layout_editor_absoluteX="184dp"
   tools:layout_editor_absoluteY="164dp"
```

```
app:layout_constraintBottom_toTopOf="@+id/htBox"
 app:layout_constraintStart_toEndOf="@+id/wtLbl"
 app:layout_constraintTop_toBottomOf="@+id/header"
 app:layout_constraintEnd_toEndOf="parent"/>
<TextView
 android:id="@+id/htLbl"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Height (in Cm)"
 android:textStyle="bold"
 tools:layout_editor_absoluteX="56dp"
 tools:layout_editor_absoluteY="295dp"
 app:layout_constraintTop_toBottomOf="@+id/wtLbl"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintEnd_toStartOf="@+id/wtBox"
 app:layout_constraintBottom_toTopOf="@+id/calcBtn"/>
<EditText
 android:id="@+id/htBox"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:ems="10"
 android:minHeight="48dp"
 android:hint="Enter Height"
 android:inputType="text"
 tools:layout_editor_absoluteX="184dp"
 tools:layout_editor_absoluteY="275dp"
 app:layout_constraintBottom_toTopOf="@+id/calcBtn"
 app:layout_constraintStart_toEndOf="@+id/htLbl"
 app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintTop_toBottomOf="@+id/wtBox"/>
<Button
 android:id="@+id/calcBtn"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Calculate"
 tools:layout_editor_absoluteX="157dp"
 tools:layout_editor_absoluteY="431dp"
 app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toBottomOf="@id/htBox"
 app:layout constraintBottom toTopOf="@+id/result"/>
<TextView
 android:id="@+id/result"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:gravity="center_horizontal"
```

```
android:textStvle="bold"
   tools:layout_editor_absoluteX="180dp"
    tools:layout_editor_absoluteY="571dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/calcBtn"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java:
package com.example.bmicalc;
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.wtBox);
   htval = findViewById(R.id.htBox);
   btn = findViewById(R.id.calcBtn);
   res = findViewById(R.id.result);
   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("The BMI is: "+bmi+" \n Under Weight ");
        else if (bmi >= 18.5 && bmi < 24.9)
          res.setText("The BMI is: "+bmi+" \n Healthy ");
        else if (bmi >= 24.9 \&\& bmi < 30)
          res.setText("The BMI is: "+bmi+" \n Over Weight ");
        else if (bmi>=30)
          res.setText("The BMI is: "+bmi+" \n Suffering from obesity ");
   });
```

```
}
}
```



Aim: Design an application to fill the registration form using AutoCompleteTextView and RadioButton by reading the input from user

Solution: activity main.xml:

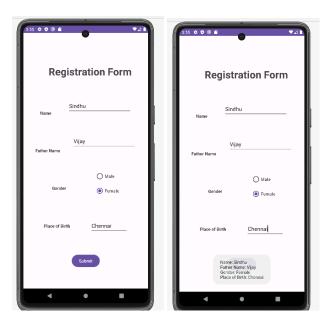
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <TextView
   android:id="@+id/header"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android: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="wrap_content"
   android:layout_height="wrap_content"
   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="wrap_content"
   android:layout_height="wrap_content"
   android:hint="Enter Location"
   android:minHeight="48dp"
   app:layout_constraintBottom_toTopOf="@+id/SubmitBtn"
   app:layout_constraintStart_toEndOf="@+id/PlaceLbl"
   app:layout_constraintTop_toBottomOf="@+id/GenderGroup"
   app:layout_constraintEnd_toEndOf="parent"/>
```

```
<TextView
 android:id="@+id/PlaceLbl"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Place of Birth"
 android:textStyle="bold"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toBottomOf="@+id/GenderGroup"
 app:layout_constraintEnd_toStartOf="@+id/PlaceBox"
 app:layout_constraintBottom_toTopOf="@+id/SubmitBtn"/>
<TextView
 android:id="@+id/GenderLbl"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 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: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"
 app:layout_constraintStart_toEndOf="@+id/GenderLbl"
 app:layout_constraintBottom_toTopOf="@+id/PlaceBox"
 app:layout_constraintTop_toBottomOf="@+id/FNameBox"
 app:layout_constraintEnd_toEndOf="parent">
 <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: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: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:text="Submit"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/PlaceBox"
   app:layout_constraintBottom_toBottomOf="parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java:
package com.example.registrationformacrg;
```

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"};
  @SuppressLint("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();
   });
 }
```



Aim: Design an application to fill the course selection of discipline electives for upcoming semester using Spinner by reading the input from user

Solution: activity main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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: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="wrap_content"
   android:layout height="wrap content"
   android:text="Student Name"
   android:textStyle="bold"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintEnd_toStartOf="@+id/nameBox"
   app:layout_constraintTop_toBottomOf="@+id/header"
   app:layout_constraintBottom_toTopOf="@+id/rollnoLbl"/>
  <EditText
   android:id="@+id/nameBox"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:minHeight="48dp"
   android:hint="Enter Student Name"
   android:inputType="text"
   app:layout_constraintStart_toEndOf="@+id/nameLbl"
   app:layout_constraintTop_toBottomOf="@+id/header"
   app:layout_constraintBottom_toTopOf="@+id/rollnoBox"
```

```
app:layout_constraintEnd_toEndOf="parent"/>
<TextView
 android:id="@+id/rollnoLbl"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Roll No"
 android:textStyle="bold"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toBottomOf="@+id/nameLbl"
 app:layout_constraintEnd_toStartOf="@+id/rollnoBox"
 app:layout_constraintBottom_toTopOf="@+id/delbl"/>
<EditText
 android:id="@+id/rollnoBox"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:ems="10"
 android:minHeight="48dp"
 android:hint="Enter Student RollNo"
 android:inputType="text"
 app:layout_constraintStart_toEndOf="@+id/rollnoLbl"
 app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintBottom_toTopOf="@+id/delbl"
 app:layout_constraintTop_toBottomOf="@+id/nameBox"/>
<TextView
 android:id="@+id/delbl"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Discipline Elective"
 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: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:text="Submit"
   android:onClick="displayDetails"
   app:layout_constraintTop_toBottomOf="@+id/electivesBox"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintBottom_toTopOf="@+id/result"
   app:layout_constraintEnd_toStartOf="@+id/ResetBtn"/>
  <Button
   android:id="@+id/ResetBtn"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Reset"
   android:onClick="resetDetails"
   app:layout_constraintStart_toEndOf="@+id/SubmitBtn"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout constraintTop toBottomOf="@+id/electivesBox"
   app:layout_constraintBottom_toTopOf="@+id/result"/>
  <TextView
   android:id="@+id/result"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:gravity="center_horizontal"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/SubmitBtn"/>
</androidx.constraintlayout.widget.ConstraintLayout>
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.deselectionspinner;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
```

```
import android.widget.AdapterView:
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 = findViewBvId(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_item);
    elec.setAdapter(adapter);
    elec.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
      @Override
     public void onItemSelected(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("");
```

