

**CSE- 4002 LAB TEST**

Academic year: 2020-2021

Semester: WIN

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Date: 16/11/2021

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**Question:**

Design the below application.

On clicking submit, if MPC marks average is less than 70 then display "Not eligible for Btech", if MPC marks  $\geq 70$ , then check the VITEEE rank. If the VITEEE rank is  $< 20000$  and the radio button selected is VIT-Vellore else if VITEEE rank is  $< 30000$  and radio button selected is VIT-Chennai else if VITEEE rank is  $< 40000$  and radio button selected is VIT-AP else if VITEEE rank is  $\geq 40000$  and radio button selected is VIT-Bhopal, then raise an Alert "Seat Allotted" else "Seat Not Allotted"

**CODE :**

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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="230dp"
        android:layout_height="55dp"
        android:layout_marginTop="68dp"
        android:text="VITEEE 2021"
        android:textAlignment="center"
        android:textSize="20sp"
```

```
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/name"
android:layout_width="232dp"
android:layout_height="48dp"
android:layout_marginStart="32dp"
android:layout_marginTop="40dp"
android:ems="10"
android:hint="Name"
android:inputType="textPersonName"
android:minHeight="48dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.412"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView" />
```

<EditText

```
android:id="@+id/marks"
android:layout_width="218dp"
android:layout_height="52dp"
android:layout_marginTop="26dp"
android:ems="10"
android:hint="MPC Average marks"
android:inputType="number"
android:minHeight="48dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.5"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/rank" />
```

<Button

```
android:id="@+id/submit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="44dp"
android:text="SUBMIT"
android:textColorHighlight="#FF6F00"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.461"
app:layout_constraintStart_toStartOf="parent" />
```

<EditText

```
android:id="@+id/rank"
android:layout_width="218dp"
android:layout_height="50dp"
android:layout_marginStart="32dp"
android:layout_marginTop="40dp"
android:ems="10"
android:hint="VITEEE RANK"
android:inputType="number"
android:minHeight="48dp"
android:textStyle=""
app:layout_constraintEnd_toEndOf="@+id/marks"
app:layout_constraintHorizontal_bias="1.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/name" />
```

<RadioButton

```
android:id="@+id/radioButton5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="43dp"
android:text="VIT-Vellore"
android:textColor="#0D47A1"
app:layout_constraintBaseline_toBaselineOf="@+id/radioButton7"
app:layout_constraintStart_toStartOf="parent" />
```

<RadioButton

```
android:id="@+id/radioButton6"
android:layout_width="104dp"
android:layout_height="48dp"
android:layout_marginStart="43dp"
android:layout_marginTop="43dp"
android:text="VIT-Ap"
android:textColor="#B71C1C"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/radioButton5" />
```

<RadioButton

```
android:id="@+id/radioButton7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="71dp"
android:layout_marginEnd="69dp"
android:text="VIT-chennai"
android:textColor="#62AEEA"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toBottomOf="@+id/marks" />
```

<RadioButton

```
    android:id="@+id/radioButton8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:text="VIT-Bhopal"
    android:textColor="#68D33F"
    app:layout_constraintStart_toStartOf="@+id/radioButton7"
    app:layout_constraintTop_toBottomOf="@+id/radioButton7" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

### MainActivity.java :

```
package com.example.19bce7346_madtest;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;;

import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private EditText name;
    private EditText rank;
    private EditText mpc;

    private RadioButton vellore;
    private RadioButton chennai;
    private RadioButton ap;
    private RadioButton bhopal;

    private Button submit;

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

        name = findViewById(R.id.name);
        mpc = findViewById(R.id.marks);
```

```
rank =findViewById(R.id.rank);

vellore =findViewById(R.id.radioButton5);
chennai =findViewById(R.id.radioButton6);
ap =findViewById(R.id.radioButton7);
bhopal =findViewById(R.id.radioButton8);

submit =findViewById(R.id.submit);

submit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        int a=Integer.parseInt(mpc.getText().toString());
        int b =Integer.parseInt(rank.getText().toString());
        if(a <=70) {
            Toast.makeText(MainActivity.this, "not eligible",
Toast.LENGTH_SHORT).show();
        }
        if(a >=70) {
            if(b <20000) {
                vellore.setChecked(true);
                Toast.makeText(MainActivity.this, "seat allocated",
Toast.LENGTH_SHORT).show();
            }
            else if(b>20000 && b<=30000) {
                ap.setChecked(true);
                Toast.makeText(MainActivity.this, "seat allocated",
Toast.LENGTH_SHORT).show();
            }
            else if(b >30000 && b <=40000) {
                chennai.setChecked(true);
                Toast.makeText(MainActivity.this, "seat allocated",
Toast.LENGTH_SHORT).show();
            }
            else if (b >=40000)
            {
                bhopal.setChecked(true);
                Toast.makeText(MainActivity.this, "seat allocated",
Toast.LENGTH_SHORT).show();
            }
        }
    }
});
```

```
}  
}
```

**OUTPUT :**

4:47 PM | 0.4KB/s

19bce7346\_MADTEST

VITEEE 2021

Name

VITEEE RANK

MPC Average marks

☐ VIT-Vellore ☐ VIT-chennai

☐ VIT-Ap ☐ VIT-Bhopal

SUBMIT

4:46 PM

19bce7346\_MADTEST

VITEEE 2021

Taran

78000

69

☒ VIT-Vellore ☐ VIT-chennai

☐ VIT-Ap ☐ VIT-Bhopal

not eligible

SUBMIT

4:45 PM | 8.3KB/s

19bce7346\_MADTEST

VITEEE 2021

Taran

18000

89

☒ VIT-Vellore ☐ VIT-chennai

☐ VIT-Ap ☐ VIT-Bhopal

seat allocated

SUBMIT

4:38 PM

19bce7346\_MADTEST

VITEEE 2021

Taran

18000

88

☒ VIT-Vellore ☒ VIT-chennai

☐ VIT-Ap ☐ VIT-Bhopal

seat allocated

SUBMIT