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1. Write program to get the following output with custom check box and custom checkbox and display the message with custom toast message.

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">

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="79dp"
        android:layout_height="30dp"
        android:text="Excellent"

        android:button="@drawable/customcheckbox"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.048"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.168" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="110dp"
        android:layout_height="29dp"
        android:text="Rate this Lesson"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.066" />

    <CheckBox
        android:id="@+id/checkBox2"
        android:layout_width="85dp"
        android:layout_height="33dp"
```

```
android:text="Good"
```

```
android:button="@drawable/customcheckbox"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintHorizontal_bias="0.337"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.167" />
```

```
<CheckBox
```

```
android:id="@+id/checkbox3"  
android:layout_width="85dp"  
android:layout_height="33dp"  
android:text="Okay"
```

```
android:button="@drawable/customcheckbox"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintHorizontal_bias="0.653"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.171" />
```

```
<CheckBox
```

```
android:id="@+id/checkbox4"  
android:layout_width="85dp"  
android:layout_height="33dp"  
android:text="Poor"
```

```
android:button="@drawable/customcheckbox"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintHorizontal_bias="0.95"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.171" />
```

```
<TextView
```

```
android:id="@+id/textView2"  
android:layout_width="257dp"  
android:layout_height="41dp"  
android:textFontWeight="800"  
android:text="Give your few suggestions here!"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintEnd_toEndOf="parent"  
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.303" />
```

```
<CheckBox
```

```
    android:id="@+id/checkBox5"
```

```
    android:layout_width="191dp"
```

```
    android:layout_height="43dp"
```

```
    android:text="I really Enjoy this class"
```

```
    android:button="@drawable/customcheckbox"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.431"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.392" />
```

```
<CheckBox
```

```
    android:id="@+id/checkBox6"
```

```
    android:layout_width="191dp"
```

```
    android:layout_height="43dp"
```

```
    android:text="I will prefer this class to else also"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    android:button="@drawable/customcheckbox"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.431"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.67" />
```

```
<CheckBox
```

```
    android:id="@+id/checkBox7"
```

```
    android:layout_width="191dp"
```

```
    android:layout_height="43dp"
```

```
    android:button="@drawable/customcheckbox"
```

```
    android:text="I would like to hear more from you"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintEnd_toEndOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.431"
```

```
    app:layout_constraintStart_toStartOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.479" />
```

```
<CheckBox
```

```
    android:id="@+id/checkBox8"
```

```
    android:layout_width="191dp"
```

```
    android:layout_height="43dp"
```

```
    android:button="@drawable/customcheckbox"
```

```

        android:text="I am satisfied with the content and full description"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.431"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.577" />

<Button
    android:id="@+id/button"
    android:layout_width="105dp"
    android:layout_height="50dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.539"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.785" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Customcheckbox.xml

```

<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:state_checked="true" android:drawable="xml\checked.xml" />
    <item android:state_checked="false" android:drawable="xml\unchecked.xml"/>
</selector>

```

Checked.xml

```

<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"

    android:shape="rectangle">

    <gradient android:startColor="#ffff0000" android:endColor="#ff000000"
    android:angle="270"/>

    <stroke android:width="4px" android:color="#ffc0c0c0" />

    <size android:height="20dp" android:width="20dp"/>

</shape>

```

Unchecked.xml

```

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

```

```

<shape xmlns:android="http://schemas.android.com/apk/res/android"

    android:shape="rectangle">

    <gradient android:startColor="#ff585858" android:endColor="#ff000000"
    android:angle="270"/>

    <stroke android:width="4px" android:color="#ffc0c0c0" />

    <size android:height="20dp" android:width="20dp"/>

</shape>

```

JAVA

```

package com.example.android.customcheckbox;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    CheckBox c1,c2,c3,c4,c5,c6,c7,c8;
    Button b;

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

        c1=(CheckBox) findViewById(R.id.checkBox);
        c2=(CheckBox) findViewById(R.id.checkBox2);
        c3=(CheckBox) findViewById(R.id.checkBox3);
        c4=(CheckBox) findViewById(R.id.checkBox4);
        c5=(CheckBox) findViewById(R.id.checkBox5);
        c6=(CheckBox) findViewById(R.id.checkBox6);
        c7=(CheckBox) findViewById(R.id.checkBox7);
        c8=(CheckBox) findViewById(R.id.checkBox8);

        b=(Button) findViewById(R.id.button);

        b.setOnClickListener(new View.OnClickListener() {

```

```

        @Override
        public void onClick(View v) {

            StringBuilder res = new StringBuilder();
            if(c1.isChecked())
            {
                res.append("Feedback : Excellent\n");
            }
            else if(c2.isChecked())
            {
                res.append("Feedback : Good\n");
            }
            else if(c3.isChecked())
            {
                res.append("Feedback : Fair\n");
            }
            else
            {
                res.append("Feedback : poor\n");
            }
            res.append("Suggestions : \n");

            if(c5.isChecked())
            {
                res.append("-> I really enjoy this session\n");
            }
            if(c6.isChecked())
            {
                res.append("-> I will prefer this to others also\n");
            }
            if(c7.isChecked())
            {
                res.append("-> I would like to hear more from you\n");
            }
            if(c8.isChecked())
            {
                res.append("-> I am satisfied\n");
            }

            Toast.makeText(getApplicationContext(),res.toString(),Toast.LENGTH_LONG).show();
        }
    }
}

```

2. Write program to get the following with default checkbox and radio button.

```
<?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">

    <CheckBox
        android:id="@+id/checkbox"
        android:layout_width="204dp"
        android:layout_height="55dp"
        android:text="CheckBox"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.122" />

    <RadioGroup
        android:layout_width="110dp"
        android:layout_height="34dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```

        app:layout_constraintHorizontal_bias="0.342"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.319" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

3. Write program to get the output given below.

```

<?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/editTextDate"
        android:layout_width="137dp"
        android:layout_height="34dp"
        android:ems="10"
        android:inputType="date"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.291"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.185" />

```

```

    <EditText
        android:id="@+id/editTextTime"
        android:layout_width="133dp"
        android:layout_height="40dp"
        android:ems="10"
        android:inputType="time"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.28"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.307" />

```

```

    <Button
        android:id="@+id/button"
        android:layout_width="80dp"
        android:layout_height="41dp"
        android:text="Button"

```



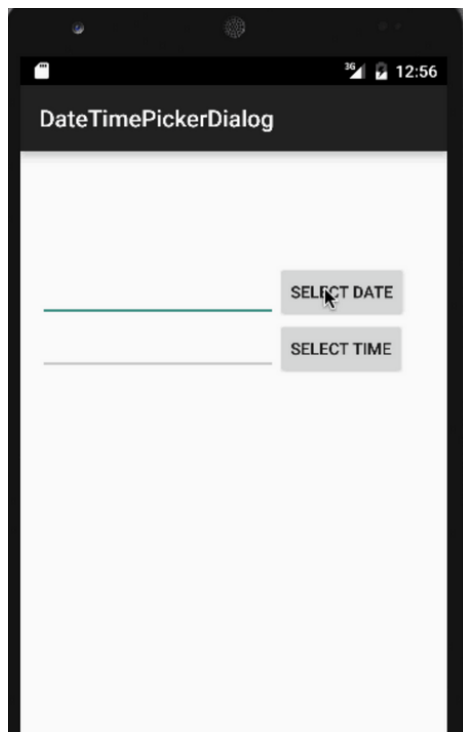
```

        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.776"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.176" />

<Button
    android:id="@+id/button2"
    android:layout_width="79dp"
    android:layout_height="42dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.781"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.306" />

</androidx.constraintlayout.widget.ConstraintLayout>

```



5. Write a program to have app with takes your name ,usn and city. For city include autocomplete feature. Button should be included o click of button display the details entered.

```
<?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/textView2"
        android:layout_width="203dp"
        android:layout_height="48dp"

        android:text="Details"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.103" />
```

```
    <TextView
        android:id="@+id/textView"
        android:layout_width="117dp"
        android:layout_height="25dp"
        android:text="Name :"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.207"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.236" />
```

```
    <TextView
        android:id="@+id/textView3"
        android:layout_width="110dp"
        android:layout_height="22dp"
        android:text="USN :"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.211"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.304" />
```

```
    <TextView
        android:id="@+id/textView4"
        android:layout_width="108dp"
        android:layout_height="34dp"
```

```
        android:text="City :"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.201"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        app:layout_constraintVertical_bias="0.37" />
```

<Button

```
        android:id="@+id/button"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="Button"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.498"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        app:layout_constraintVertical_bias="0.499" />
```

<EditText

```
        android:id="@+id/editTextTextPersonName"  
        android:layout_width="150dp"  
        android:layout_height="31dp"  
        android:ems="10"  
        android:inputType="textPersonName"  
        android:text="Name"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.785"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        app:layout_constraintVertical_bias="0.238" />
```

<EditText

```
        android:id="@+id/editTextTextPersonusn"  
        android:layout_width="157dp"  
        android:layout_height="31dp"  
        android:ems="10"  
        android:inputType="textPersonName"  
        android:text="Name"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.807"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        app:layout_constraintVertical_bias="0.308" />
```

<AutoCompleteTextView

```

        android:id="@+id/editTextTextPersoncity"
        android:layout_width="157dp"
        android:layout_height="31dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.807"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.378" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

JAVA

```

package com.example.android.autocomplete;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.graphics.Color;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;

import android.graphics.Color;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;
public class MainActivity extends AppCompatActivity {

    String[] cities
    ={"bangalore","mumbai","hyderabad","chennai","delhi","lucknow","kolkata","agra"};

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

        ArrayAdapter<String> a= new ArrayAdapter<String>(this,
        android.R.layout.select_dialog_item,cities);

        AutoCompleteTextView al
        =(AutoCompleteTextView) findViewById(R.id.editTextTextPersoncity);

```

```
a1.setThreshold(1);
```

```
a1.setAdapter(a);
```

```
a1.setTextColor(Color.RED);
```

```
}
```

```
}
```

Details

Name :

USN :

City :

BUTTON