EXERCISE 4

STUDENT ONLINE APPLICATION SYSTEM

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ACTIVITY_MAIN.XML:

```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="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="38dp"
        android:layout_marginTop="40dp"
        android:text="Enter your Name:"
        android:textAlignment="center"
        android:textColor="#9C27B0"
        android:textSize="16sp"
        android:textStyle="bold"
        app:layout_constraintStart_toStartOf="@+id/editTextTextPersonName"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="5dp"
        android:layout_marginBottom="28dp"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintStart_toStartOf="@+id/textView2" />

    <EditText
        android:id="@+id/editTextTextPersonName2"
```

```xml
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="27dp"
        android:layout_marginBottom="41dp"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout_constraintStart_toStartOf="@+id/textView3" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="1dp"
        android:layout_marginBottom="33dp"
        android:text="Enter your registration number:"
        android:textAlignment="center"
        android:textColor="#9C27B0"
        android:textSize="16sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName2"
        app:layout_constraintStart_toStartOf="@+id/editTextTextPersonName2" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="311dp"
        android:text="Select your course for the current semester:"
        android:textAlignment="center"
        android:textColor="#9C27B0"
        android:textSize="14sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="33dp"
        android:layout_marginTop="35dp"
        android:text="MAD"
        app:layout_constraintStart_toStartOf="@+id/textView3"
        app:layout_constraintTop_toBottomOf="@+id/textView3" />

    <CheckBox
```

```xml
        android:id="@+id/checkBox2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="22dp"
        android:text="NETWORK PROGRAMMING"
        app:layout_constraintStart_toStartOf="@+id/checkBox"
        app:layout_constraintTop_toBottomOf="@+id/checkBox" />

    <CheckBox
        android:id="@+id/checkBox3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="26dp"
        android:text="CYBER SECURITY"
        app:layout_constraintStart_toStartOf="@+id/checkBox2"
        app:layout_constraintTop_toBottomOf="@+id/checkBox2" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="41dp"
        android:layout_marginEnd="3dp"
        android:backgroundTint="#9C27B0"
        android:text="PREVIEW"
        android:textSize="14sp"
        app:layout_constraintEnd_toEndOf="@+id/checkBox3"
        app:layout_constraintTop_toBottomOf="@+id/checkBox3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MAIN ACTIVITY.JAVA:

```java
package com.example.assignment_2710;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    CheckBox c1,c2,c3;
    Button b;
    EditText e1,e2;
```

```java
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ListenerCheckBox();
        displayCheckBox();
    }
    public void ListenerCheckBox(){
        e1=(EditText)findViewById(R.id.editTextTextPersonName);
        e2=(EditText)findViewById(R.id.editTextTextPersonName2);

        c1=(CheckBox)findViewById(R.id.checkBox);
        c1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(((CheckBox)v).isChecked()){
                    Toast.makeText(MainActivity.this,"MAD checkbox is
clicked",Toast.LENGTH_LONG).show();
                }
            }
        });
        c2=(CheckBox)findViewById(R.id.checkBox2);
        c2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(((CheckBox)v).isChecked()){
                    Toast.makeText(MainActivity.this,"NETWORK PROGRAMMING checkbox is
clicked",Toast.LENGTH_LONG).show();
                }
            }
        });
        c3=(CheckBox)findViewById(R.id.checkBox3);
        c3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(((CheckBox)v).isChecked()){
                    Toast.makeText(MainActivity.this,"CYBERSECURITY checkbox is
clicked",Toast.LENGTH_LONG).show();
                }
            }
        });
    }
    public void displayCheckBox()
    {
        c1=(CheckBox)findViewById(R.id.checkBox);
        c2=(CheckBox)findViewById(R.id.checkBox2);
        c3=(CheckBox)findViewById(R.id.checkBox3);
        b=(Button)findViewById(R.id.button);
```
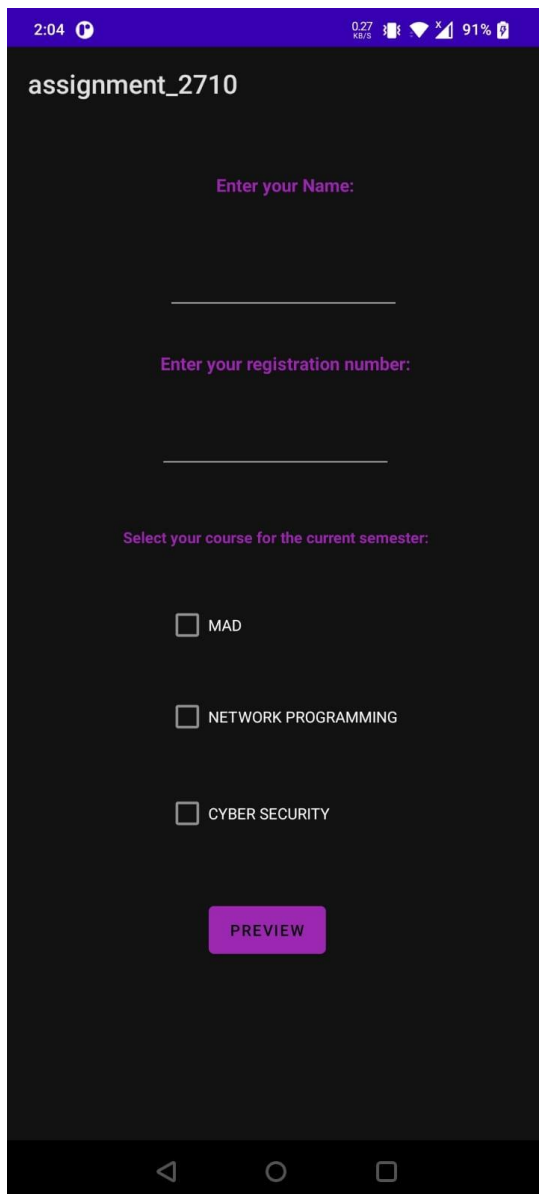
```java
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                StringBuffer select=new StringBuffer();
                select.append(e1.getText().toString()).append(" ").append(e2.getText().toString());
                select.append("MAD: ").append(c1.isChecked());
                select.append("NETWORK PROGRAMMING: ").append(c2.isChecked());
                select.append("CYBER SECURITY: ").append(c3.isChecked());
                Toast.makeText(MainActivity.this,select.toString(),Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

OUTPUT:

assignment_2710

Enter your Name:

Sirisha

Enter your registration number:

19bce7024

Select your course for the current semester:

☑ MAD

☐ NETWORK PROGRAMMING

☐ CYBER SECURITY

PREVIEW

MAD checkbox is clicked

assignment_2710

Enter your Name:

Sirisha

Enter your registration number:

19bce7024

Select your course for the current semester:

☑ MAD

☐ NETWORK PROGRAMMING

☐ CYBER SECURITY

PREVIEW

Sirisha 19bce7024MAD: trueNETWORK
PROGRAMMING: falseCYBER SECURITY: false