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

<**android.widget.LinearLayout 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"**

**android:orientation="vertical"**

**android:paddingTop="10dp"**

**android:paddingBottom="10dp"**

**android:paddingLeft="10dp"**

**android:paddingRight="10dp"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Enter Number: "**

**android:textColor="@color/mycolor"**

**android:textAllCaps="true"**

**android:id="@+id/t1"**/>

<**EditText**

**android:id="@+id/editText"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:inputType="number"**

**android:maxLength="4"**

**android:hint="Enter a Number here"**

/>

<**TextView**

**android:id="@+id/textView3"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="10dp"**

**android:text="Select the courses"**

**android:gravity="left"**

**android:textAllCaps="true"**/>

<**CheckBox**

**android:id="@+id/checkBox1"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:gravity="left"**

**android:checked="true"**

**android:text="Android"** />

<**CheckBox**

**android:id="@+id/checkBox2"**

**android:layout\_width="116dp"**

**android:layout\_height="wrap\_content"**

**android:text="Cloud Computing"** />

<**RadioButton**

**android:id="@+id/radioButton1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_gravity="center\_horizontal"**

**android:text="Cryptography"**

**android:layout\_marginTop="20dp"**

**android:checked="true"**

**android:textSize="20dp"** />

<**RadioButton**

**android:id="@+id/radioButton2"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="Web Development"**

**android:layout\_marginTop="10dp"**

**android:textSize="20dp"** />

<**View**

**android:layout\_width="match\_parent"**

**android:layout\_height="1dp"**

**android:layout\_marginTop="20dp"**

**android:background="#B8B894"** />

<**TextView**

**android:id="@+id/textView2"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="30dp"**

**android:gravity="center\_horizontal"**

**android:textSize="22dp"**

**android:text="Radio button inside RadioGroup"** />

*<!-- Customized RadioButtons -->*

<**RadioGroup**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:id="@+id/radioGroup"**>

<**RadioButton**

**android:id="@+id/radioElective"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:text=" Elective"**

**android:layout\_marginTop="10dp"**

**android:textSize="20dp"** />

<**RadioButton**

**android:id="@+id/radioCore"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:text=" Core"**

**android:layout\_marginTop="20dp"**

**android:checked="false"**

**android:textSize="20dp"** />

</**RadioGroup**>

<**Button**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Show Selected"**

**android:id="@+id/button"**

**android:onClick="onclickbutton"**

**android:layout\_gravity="center\_horizontal"** />

</**android.widget.LinearLayout**>

**package** com.example.archana.a5\_edittext\_checkbox\_radio;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.text.Editable;

**import** android.text.TextWatcher;

**import** android.util.Log;

**import** android.view.View;

**import** android.view.Window;

**import** android.view.WindowManager;

**import** android.widget.Button;

**import** android.widget.CheckBox;

**import** android.widget.EditText;

**import** android.widget.RadioButton;

**import** android.widget.RadioGroup;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity

**implements** TextWatcher,

View.OnClickListener,

RadioGroup.OnCheckedChangeListener {

EditText **ed**;

CheckBox **c1**,**c2**;

Button **button**;

RadioButton **subRadioButton**;

RadioGroup **radioGroup**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

*// Make editText use TextWatcher interface to watch change made over EditText.*

*// For doing this, EditText calls the addTextChangedListener() method.*

**ed** = findViewById(R.id.***editText***);

**ed**.addTextChangedListener(**this**);

*// checkbox uses setOnClickListener for notifying selection*

**c1** = (CheckBox) findViewById(R.id.***checkBox1***);

**c2** = (CheckBox) findViewById(R.id.***checkBox2***);

**c1**.setOnClickListener(**this**);

**c2**.setOnClickListener(**this**);

**radioGroup**=findViewById(R.id.***radioGroup***);

**radioGroup**.setOnCheckedChangeListener(**this**);

}

@Override

**public void** beforeTextChanged(CharSequence s, **int** start, **int** count, **int** after) {

Toast.*makeText*(getApplicationContext(),

**"before Textchanged : "** +

s.toString(), Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"BeforeChange"**, s.toString());

}

@Override

**public void** onTextChanged(CharSequence s, **int** start, **int** before, **int** count) {

Toast.*makeText*(getApplicationContext(), **"on Text changed :"** + s.toString(), Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"OnChange"**, s.toString());

}

@Override

**public void** afterTextChanged(Editable s) {

Toast.*makeText*(getApplicationContext(),

**"After TextChanged : "** +

s.toString(), Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"AfterChange"**, s.toString());

*// try {*

*// int no = Integer.parseInt(s.toString());*

*// if (no > 5) {*

*// s.replace(0, s.length(), "");*

*// Toast.makeText(getApplicationContext(), " Enter a number < 5 ", Toast.LENGTH\_SHORT).show();*

*// Log.d(" Enter a number < 5 ", s.toString());*

*// }*

*// } catch (NumberFormatException e) {*

*// }*

}

@Override

**public void** onClick(View v) {

CheckBox t = (CheckBox) v;

**if** (t.isChecked()) {

Toast.*makeText*(getApplicationContext(),

t.getText()+

**" is selected"**, Toast.***LENGTH\_SHORT***).show();

*// if(t.getId()==c1.getId()){*

*// c2.setChecked(false);*

*// }*

*// else*

*// c1.setChecked(false);*

}

}

**public void** onclickbutton(View view) {

**int** selectedId = **radioGroup**.getCheckedRadioButtonId();

**subRadioButton** = (RadioButton) findViewById(selectedId);

**if**(selectedId == -1){

Toast.*makeText*(MainActivity.**this**,**"Nothing selected"**, Toast.***LENGTH\_SHORT***).show();

}

**else**{

Toast.*makeText*(MainActivity.**this**,**subRadioButton**.getText()+**" is selected"**, Toast.***LENGTH\_SHORT***).show();

}

}

@Override

**public void** onCheckedChanged(RadioGroup radioGroup1, **int** i) {

*//radioGroup1.getCheckedRadioButtonId();*

RadioButton rb = findViewById(i);

Toast.*makeText*(MainActivity.**this**,

rb.getText()+

**" is selected"**,

Toast.***LENGTH\_SHORT***).show();

}

}