Activity\_main.xml

*<?***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/colorAccent"**

**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="right"**

**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="left"**

**android:text="Cryptography"**

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

**android:checked="true"**

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

<**RadioButton**

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

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

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

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

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

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

<**View**

**android:layout\_width="fill\_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="onclickbuttonMethod"**

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

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

MainActivity.java

**package** com.example.jevitha.a3\_edittext\_checkbox;

**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** = (EditText) 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**=(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 > 99) {

s.replace(0, s.length(), **"10"**);

Toast.*makeText*(getApplicationContext(), **" Enter a number < 99 "**, Toast.***LENGTH\_SHORT***).show();

Log.*d*(**" Enter a number < 99 "**, 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** onclickbuttonMethod(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();

}

}