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**Class:** Final Year B. Tech CSE **Batch:** B2

**Title: Program to demonstrate Buttons, Text Fields, Checkboxes, Radio Buttons, and Toggle Buttons with their events handler.**

**activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<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"  
 tools:context=".MainActivity"  
 android:orientation="vertical"  
 android:background="#E8E7E7">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Full Name"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 />  
 <EditText  
 android:id="@+id/edtFullName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:background="#fff"  
 />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Phone Number"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 />  
 <EditText  
 android:id="@+id/edtPhoneNumber"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:background="#fff"  
  
 />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Current Year"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 />  
 <RadioGroup  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:id="@+id/rdGroup"  
 android:layout\_below="@+id/txtView">  
 <RadioButton  
 android:id="@+id/rdbFirstYear"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="First Year"  
 android:onClick="onRadioButtonClicked"/>  
 <RadioButton  
 android:id="@+id/rdbSecondYear"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="Second Year"  
 android:onClick="onRadioButtonClicked"/>  
 <RadioButton  
 android:id="@+id/rdbThirdYear"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="Third Year"  
 android:onClick="onRadioButtonClicked"/>  
 <RadioButton  
 android:id="@+id/rdbFourthYear"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="Fourth Year"  
 android:onClick="onRadioButtonClicked"/>  
 </RadioGroup>  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Select Extra Courses"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 />  
  
 <CheckBox  
 android:id="@+id/chkJava"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="Java"  
 android:onClick="onCheckboxClicked"/>  
 <CheckBox  
 android:id="@+id/chkPython"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="Python"  
 android:onClick="onCheckboxClicked"/>  
 <CheckBox  
 android:id="@+id/chkAndroid"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="Android"  
 android:onClick="onCheckboxClicked"/>  
 <CheckBox  
 android:id="@+id/chkAngular"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:layout\_marginLeft="50dp"  
 android:text="AngularJS"  
 android:onClick="onCheckboxClicked"/>  
  
 <Button  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:onClick="submitClick"  
 />  
  
</LinearLayout>

**activity\_result.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<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"  
 tools:context=".ResultActivity"  
 android:orientation="vertical">  
 <TextView  
 android:id="@+id/txtfullname"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text=""  
 android:layout\_marginTop="150dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 android:textSize="20dp"  
 />  
 <TextView  
 android:id="@+id/txtphonenumber"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text=""  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 android:textSize="20dp"  
 />  
 <TextView  
 android:id="@+id/txtcurrentyear"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text=""  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 android:textSize="20dp"  
 />  
 <TextView  
 android:id="@+id/txtseletctedcourses"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text=""  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 android:textColor="#000"  
 android:textSize="20dp"  
 />  
  
  
  
</LinearLayout>

**MainActivity.java**

package com.example.uicontroles;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
  
public class MainActivity extends AppCompatActivity {  
 public static EditText *edtFullName*, *edtPhoneNumber*;  
 public static CheckBox *chbJava*, *chbPython*,*chbAndroid*, *chbAngular*;  
  
 public static RadioButton *rbFirstYear*,*rbSecondYear*, *rbThirdYear*, *rbFourthYear*;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 *edtFullName* = (EditText)findViewById(R.id.*edtFullName*);  
 *edtPhoneNumber*=(EditText)findViewById(R.id.*edtPhoneNumber*);  
  
 *chbAndroid* = (CheckBox)findViewById(R.id.*chkAndroid*);  
 *chbAngular* = (CheckBox)findViewById(R.id.*chkAngular*);  
 *chbJava* = (CheckBox)findViewById(R.id.*chkJava*);  
 *chbPython* = (CheckBox)findViewById(R.id.*chkPython*);  
  
 *rbFirstYear* =(RadioButton)findViewById(R.id.*rdbFirstYear*);  
 *rbSecondYear*=(RadioButton)findViewById(R.id.*rdbSecondYear*);  
 *rbThirdYear*=(RadioButton)findViewById(R.id.*rdbThirdYear*);  
 *rbFourthYear*=(RadioButton)findViewById(R.id.*rdbFourthYear*);  
 }  
 public void onRadioButtonClicked(View view){  
  
 }  
 public void onCheckboxClicked(View view){  
  
 }  
  
 public void submitClick(View view){  
 String fullName= "Full Name: "+*edtFullName*.getText().toString();  
 String phoneNumber="Phone Number: "+ *edtPhoneNumber*.getText().toString();  
  
 String selectedCourses = "Selected Courses: ";  
 if(*chbAndroid*.isChecked()){  
 selectedCourses += "\nAndroid";  
 }  
 if(*chbAngular*.isChecked()){  
 selectedCourses += "\nAngularJS";  
 }  
 if(*chbJava*.isChecked()){  
 selectedCourses += "\nJava";  
 }  
 if(*chbPython*.isChecked()){  
 selectedCourses += "\nPython";  
 }  
  
  
 String currentYear = "Selected Year: ";  
 currentYear+= (*rbFirstYear*.isChecked())?"First Year":(*rbSecondYear*.isChecked())?"Second Year":(*rbThirdYear*.isChecked())?"Third Year":(*rbFourthYear*.isChecked())?"Fourth Year":"";  
  
  
 Intent intent = new Intent(MainActivity.this,ResultActivity.class);  
 intent.putExtra("fullName",fullName);  
 intent.putExtra("phoneNumber",phoneNumber);  
 intent.putExtra("currentYear",currentYear);  
 intent.putExtra("selectedCourses",selectedCourses);  
 startActivity(intent);  
 }  
  
}

**ResultActivity.java**

package com.example.uicontroles;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class ResultActivity extends AppCompatActivity {  
 public static TextView *txtfullName*,*txtphoneNumber*,*txtcurrentYear*,*txtselectedCourses*;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
  
 *txtfullName*=(TextView) findViewById(R.id.*txtfullname*);  
 *txtphoneNumber*=(TextView) findViewById(R.id.*txtphonenumber*);  
 *txtcurrentYear*=(TextView) findViewById(R.id.*txtcurrentyear*);  
 *txtselectedCourses*=(TextView) findViewById(R.id.*txtseletctedcourses*);  
  
 Intent intent = getIntent();  
  
  
  
 *txtfullName*.setText((String)intent.getSerializableExtra("fullName"));  
 *txtphoneNumber*.setText((String)intent.getSerializableExtra("phoneNumber"));  
 *txtcurrentYear*.setText((String)intent.getSerializableExtra("currentYear"));  
 *txtselectedCourses*.setText((String)intent.getSerializableExtra("selectedCourses"));  
  
 }  
}

**Output:**

 