Activity\_main.xml

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

<**RelativeLayout 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:paddingBottom="10dp"**

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

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

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

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

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

<**TextView**

**android:id="@+id/tv1"**

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

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

**android:text="Hello World!"**/>

</**RelativeLayout**>

MainActivity.java

**package** com.example.jevitha.a4\_1\_dynamicradiobutton;

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

**import** android.os.Bundle;

**import** android.widget.Button;

**import** android.widget.RadioButton;

**import** android.widget.RadioGroup;

**import** android.widget.RelativeLayout;

**import** android.widget.Toast;

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

RadioGroup **rg**;

RelativeLayout **rl**;

RadioButton **rb1**,**rb2**;

@Override

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

**super**.onCreate(savedInstanceState);

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

**rg** = **new** RadioGroup(**this**);

**rl** = (RelativeLayout) findViewById(R.id.***relativeLayout***);

**rb1** = **new** RadioButton(**this**);

**rb2** = **new** RadioButton(**this**);

**rb1**.setText(**"Male"**);

**rb2**.setText(**"Female"**);

**rg**.addView(**rb1**);

**rg**.addView(**rb2**);

**rg**.setOrientation(RadioGroup.***VERTICAL***);

RelativeLayout.LayoutParams params[] ={ **new** RelativeLayout.LayoutParams(RelativeLayout.LayoutParams.***MATCH\_PARENT***,RelativeLayout.LayoutParams.***MATCH\_PARENT***), *// Layout params for radio group*

**new** RelativeLayout.LayoutParams(RelativeLayout.LayoutParams.***WRAP\_CONTENT***,RelativeLayout.LayoutParams.***WRAP\_CONTENT***)}; *// Layout params for button*

*// new RelativeLayout.LayoutParams(RelativeLayout.LayoutParams.MATCH\_PARENT,RelativeLayout.LayoutParams.MATCH\_PARENT)}; // Try this out for testing*

params[0].**leftMargin** =200;

params[0].**topMargin** = 200;

params[0].**height** = 200;

**rg**.setLayoutParams(params[0]);

**rl**.addView(**rg**);

params[1].**leftMargin** =100;

params[1].**topMargin** = 800;

*// params[1].height = 400; // Try uncommenting this as well*

*// Inserting another button for testing - did not do in class*

Button b = **new** Button (**this**);

b.setText(**"Test"**);

b.setLayoutParams(params[1]);

**rl**.addView(b);

**rg**.setOnCheckedChangeListener(**new** RadioGroup.OnCheckedChangeListener() {

@Override

**public void** onCheckedChanged(RadioGroup group, **int** checkedId) {

RadioButton radioButton = (RadioButton) findViewById(checkedId);

Toast.*makeText*(getApplicationContext(),radioButton.getText(),Toast.***LENGTH\_SHORT***).show();

}

});

}

}