**Android RadioButton**

**RadioButton** is a two states button which is either checked or unchecked. If a single radio button is unchecked, we can click it to make checked radio button. Once a radio button is checked, it cannot be marked as unchecked by user.

RadioButton is generally used with *RadioGroup*. RadioGroup contains several radio buttons, marking one radio button as checked makes all other radio buttons as unchecked.

**Example of Radio Button**

In this example, we are going to implement single radio button separately as well as radio button in **RadioGroup**.

**activity\_main.xml**

**File: activity\_main.xml**

1. <?xml version="1.0" encoding="utf-8"?>
2. <LinearLayout
3. xmlns:android="http://schemas.android.com/apk/res/android"
4. xmlns:tools="http://schemas.android.com/tools"
5. android:layout\_width="match\_parent"
6. android:layout\_height="match\_parent"
7. android:orientation="vertical"
8. tools:context="example.javatpoint.com.radiobutton.MainActivity">
10. <TextView
11. android:id="@+id/textView1"
12. android:layout\_width="fill\_parent"
13. android:layout\_height="wrap\_content"
14. android:layout\_marginTop="30dp"
15. android:gravity="center\_horizontal"
16. android:textSize="22dp"
17. android:text="Single Radio Buttons" />


21. <!--   Default RadioButtons  -->
23. <RadioButton
24. android:id="@+id/radioButton1"
25. android:layout\_width="fill\_parent"
26. android:layout\_height="wrap\_content"
27. android:layout\_gravity="center\_horizontal"
28. android:text="Radio Button 1"
29. android:layout\_marginTop="20dp"
31. android:textSize="20dp" />
32. <RadioButton
33. android:id="@+id/radioButton2"
34. android:layout\_width="fill\_parent"
35. android:layout\_height="wrap\_content"
36. android:text="Radio Button 2"
37. android:layout\_marginTop="10dp"
39. android:textSize="20dp" />

42. <View
43. android:layout\_width="fill\_parent"
44. android:layout\_height="1dp"
45. android:layout\_marginTop="20dp"
46. android:background="#B8B894" />
48. <TextView
49. android:id="@+id/textView2"
50. android:layout\_width="fill\_parent"
51. android:layout\_height="wrap\_content"
52. android:layout\_marginTop="30dp"
53. android:gravity="center\_horizontal"
54. android:textSize="22dp"
55. android:text="Radio button inside RadioGroup" />

58. <!--   Customized RadioButtons  -->

61. <RadioGroup
62. android:layout\_width="wrap\_content"
63. android:layout\_height="wrap\_content"
64. android:id="@+id/radioGroup">
66. <RadioButton
67. android:id="@+id/radioMale"
68. android:layout\_width="fill\_parent"
69. android:layout\_height="wrap\_content"
70. android:text="  Male"
71. android:layout\_marginTop="10dp"
72. android:checked="false"
73. android:textSize="20dp" />
75. <RadioButton
76. android:id="@+id/radioFemale"
77. android:layout\_width="fill\_parent"
78. android:layout\_height="wrap\_content"
79. android:text="   Female"
80. android:layout\_marginTop="20dp"
81. android:checked="false"
83. android:textSize="20dp" />
84. </RadioGroup>
86. <Button
87. android:layout\_width="wrap\_content"
88. android:layout\_height="wrap\_content"
89. android:text="Show Selected"
90. android:id="@+id/button"
91. android:onClick="onclickbuttonMethod"
92. android:layout\_gravity="center\_horizontal" />

95. </LinearLayout>

**Activity class**

**File: MainActivity.java**

1. import android.support.v7.app.AppCompatActivity;
2. import android.os.Bundle;
3. import android.view.View;
4. import android.widget.Button;
5. import android.widget.RadioButton;
6. import android.widget.RadioGroup;
7. import android.widget.Toast;
9. public class MainActivity extends AppCompatActivity {
10. Button button;
11. RadioButton genderradioButton;
12. RadioGroup radioGroup;
13. @Override
14. protected void onCreate(Bundle savedInstanceState) {
15. super.onCreate(savedInstanceState);
16. setContentView(R.layout.activity\_main);
17. radioGroup=(RadioGroup)findViewById(R.id.radioGroup);
18. }
19. public void onclickbuttonMethod(View v){
20. int selectedId = radioGroup.getCheckedRadioButtonId();
21. genderradioButton = (RadioButton) findViewById(selectedId);
22. if(selectedId==-1){
23. Toast.makeText(MainActivity.this,"Nothing selected", Toast.LENGTH\_SHORT).show();
24. }
25. else{
26. Toast.makeText(MainActivity.this,genderradioButton.getText(), Toast.LENGTH\_SHORT).show();
27. }
29. }
30. }

Output

  
