

## Practical No 12

### X.1

- **Program:**
- **XML File:**

```
<?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"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/tv2"
        android:layout_width="304dp"
        android:layout_height="36dp"
        android:layout_above="@+id/radioButton1"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="52dp"
        android:layout_marginEnd="55dp"
        android:layout_marginBottom="-180dp"
        android:text="Radio Button inside Radio Group"
        android:textColor="#090202"
        android:textSize="20sp" />
    <RadioButton
        android:id="@+id/radioButton1"
        android:layout_width="193dp"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="36dp"
```

```
android:layout_marginEnd="181dp"
android:layout_marginBottom="584dp"
android:text="Radio Button 1"
android:textSize="20sp"
android:textStyle="bold" />
```

<RadioButton

```
android:id="@+id/radioButton2"
android:layout_width="193dp"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginStart="36dp"
android:layout_marginEnd="181dp"
android:layout_marginBottom="535dp"
android:text="Radio Button 2"
android:textSize="20sp"
android:textStyle="bold" />
```

<TextView

```
android:id="@+id/tv"
android:layout_width="216dp"
android:layout_height="36dp"
android:layout_above="@+id/radioButton1"
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_marginStart="99dp"
android:layout_marginEnd="96dp"
android:layout_marginBottom="28dp"
android:text="Single Radio Buttons"
android:textColor="#090202"
android:textSize="20sp" />
```

<View

```
android:id="@+id/divider"
android:layout_width="match_parent"
```

```

        android:layout_height="1dp"
        android:layout_above="@+id/tv2"
        android:layout_marginBottom="22dp"
        android:background="?android:attr/listDivider" />
<RadioGroup
    android:id="@+id/rgrp"
    android:layout_width="294dp"
    android:layout_height="94dp"
    android:layout_below="@+id/tv2"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginTop="200dp"
    android:layout_marginEnd="75dp"
    android:layout_marginBottom="338dp">
    <RadioButton
        android:id="@+id/male"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Male"
        android:textSize="20sp"
        android:textStyle="bold" />
    <RadioButton
        android:id="@+id/female"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:minHeight="48dp"
        android:text="Female"
        android:textSize="20sp"
        android:textStyle="bold" />
</RadioGroup>
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

```

```

        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginTop="-393dp"
        android:layout_marginEnd="125dp"
        android:layout_marginBottom="260dp"
        android:text="Show Selected"
        app:iconTint="#980F0F" />
</RelativeLayout>

```

- **JAVA File:**

```

package com.example.mad_practicals;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    RadioGroup radioGroup;
    RadioButton radioButton1,radioButton2;
    Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        radioGroup=findViewById(R.id.rgrp);
        button=findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int radioButtonID =
                    radioGroup.getCheckedRadioButtonId();

```

```

RadioButton radioButton = (RadioButton)
    radioGroup.findViewById(radioButtonID);
String selectedtext = (String) radioButton.getText();
Toast.makeText(MainActivity.this,selectedtext+"    is    Selected    ",
Toast.LENGTH_SHORT).show();
    }
});
}
}

```

- **Output:**



### Single Radio Buttons

☒ **Radio Button 1**

☐ **Radio Button 2**

---

### Radio Button inside Radio Group

☒ **Male**

☐ **Female**

**SHOW SELECTED**

Male is Selected