## Practical 12

Mobile Application Development

Question 1. Write a program to show following output. First two Radiobuttons are without using Radio Group and next two Radiobuttons are using Radio Group. Toast which radio button is selected.

```
MainActivity.java
package com.example.practical12;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  RadioButton r1,r2,r;
  RadioGroup rg;
  Button b;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    r1=findViewById(R.id.radioButton1);
    r2=findViewById(R.id.radioButton2);
    rg=findViewById(R.id.rgp);
    b=findViewById(R.id.button);
    View.OnClickListener cl=new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        String msg="";
        if(r1.isChecked())
          msg=msg+"Radio Button 1";
        if(r2.isChecked())
          msg=msg+",Radio Button 2";
        if(!msg.equals(""))
          Toast.makeText(MainActivity.this,"Selected radio button:
"+msg,Toast.LENGTH_LONG).show();
        int rid=rg.getCheckedRadioButtonId();
        r=findViewById(rid);
        if(r!=null)
          Toast.makeText(MainActivity.this,"Selected
Gender:"+r.getText().toString(),Toast.LENGTH LONG).show();
```

```
}
    };
    b.setOnClickListener(cl);
 }
}
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
  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">
  <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
      android:id="@+id/textView"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout marginTop="20dp"
      android:layout gravity="center horizontal"
      android:textSize="20dp"
      android:text="Single Radio Buttons" />
    <RadioButton
      android:id="@+id/radioButton1"
      android:layout_width="wrap_content"
      android:layout height="wrap content"
      android:layout marginLeft="20dp"
      android:text="Radio Button 1" />
    <RadioButton
      android:id="@+id/radioButton2"
      android:layout width="wrap content"
      android:layout_height="wrap_content"
      android:layout marginLeft="20dp"
      android:text="Radio Button 2" />
    <View
      android:id="@+id/divider"
      android:layout width="match parent"
      android:layout height="2dp"
      android:background="?android:attr/listDivider"
```

```
android:layout marginTop="10dp"/>
    <RadioGroup
      android:id="@+id/rgp"
      android:layout width="match parent"
      android:layout_height="wrap_content" >
      < Radio Button
        android:id="@+id/rbmale"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:layout_marginLeft="20dp"
        android:text="Male" />
      < Radio Button
        android:id="@+id/rbfemale"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_marginLeft="20dp"
        android:text="Female" />
    </RadioGroup>
    <Button
      android:id="@+id/button"
      android:layout_width="wrap_content"
      android:layout height="wrap content"
      android:layout gravity="center horizontal"
      android:background="@color/black"
      android:backgroundTint="#7C7A7A"
      android:text="Show selected"
       />
  </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
Output
 2:57 🌣 🗘 🖺
 Practical 12
      Single Radio Buttons
 Radio Button 1
 Radio Button 2
 Male
 O Female
         HOW SELECTED
        Selected gender: Male
```