**Experiment 12**

**Q1:**

**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"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Single Radio Buttons"

android:layout\_marginLeft="120dp"

android:layout\_marginTop="70dp"

android:textSize="20dp"

/>

<RadioButton

android:id="@+id/radioButton1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="40dp"

android:layout\_marginLeft="10dp"

android:text="Radio Button 1"

/>

<RadioButton

android:id="@+id/radioButton2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="10dp"

android:text="Radio Button 2"

/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:layout\_marginTop="60dp"

android:background="@android:color/darker\_gray" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Single Radio Buttons"

android:layout\_marginLeft="120dp"

android:layout\_marginTop="70dp"

android:textSize="20dp"

/>

<RadioGroup

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

>

<RadioButton

android:id="@+id/male"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="40dp"

android:layout\_marginLeft="10dp"

android:text="Male"

/>

<RadioButton

android:id="@+id/female"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="10dp"

android:text="Female"

/>

</RadioGroup>

<Button

android:id="@+id/showSelected"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="140dp"

android:text="Show Selected"

/>

</LinearLayout>

**JAVA:**

package com.example.experiment\_12;

import androidx.appcompat.app.AppCompatActivity;

import android.view.View;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Button;

import android.widget.Toast;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

RadioButton r1, r2, male, female;

Button validate;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

r1 = findViewById(R.id.radioButton1);

r2 = findViewById(R.id.radioButton2);

male = findViewById(R.id.male);

female = findViewById(R.id.female);

validate = findViewById(R.id.showSelected);

validate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

StringBuilder selectedRadios = new StringBuilder();

if(r1.isChecked()){

selectedRadios.append("RadioButton 1 Selected. \n");

}

if(r2.isChecked()){

selectedRadios.append("RadioButton 2 Selected. \n");

}

if(male.isChecked()){

selectedRadios.append("Male Selected. \n");

}

if(female.isChecked()){

selectedRadios.append("Female Selected. \n");

}

if(selectedRadios.length()>0){

Toast.makeText(getApplicationContext(), selectedRadios.toString(), Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "No Radio Button Selected.", Toast.LENGTH\_SHORT).show();

}

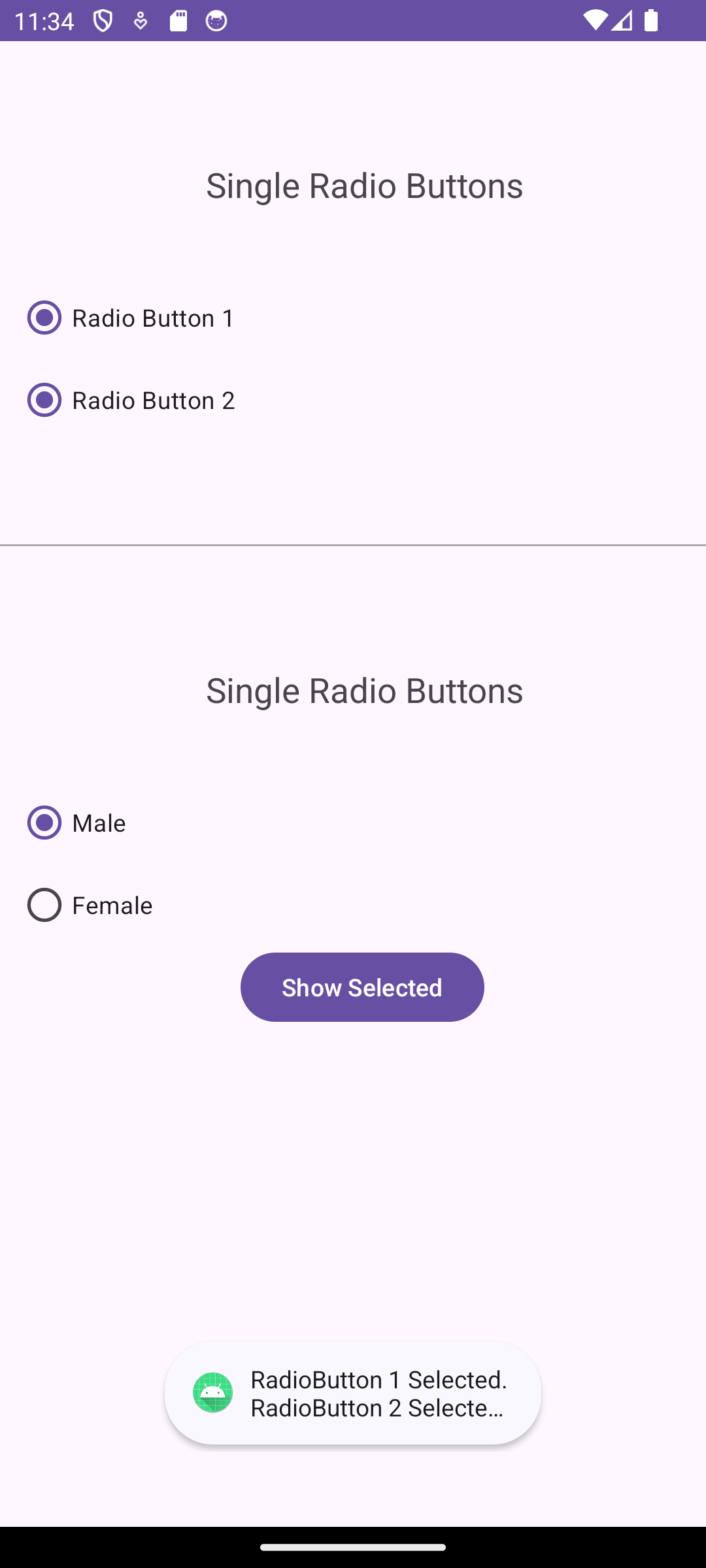
}

});

}

}

**Output:**

****