**Practical 12**

1. Write a Program to show the following output. First two radio buttons are without using radio group and next two radio buttons are using radio group. Note changes between these two. Also Toast which radio button has been selected..

Xml Code :

<?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"

tools:context=".MainActivity"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Single Radio Buttons"

android:textSize="35dp"

android:textColor="@color/black"

android:textStyle="bold"

android:layout\_gravity="center"

android:layout\_marginTop="40dp"

/>

<RadioButton

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="25dp"

android:layout\_marginLeft="10dp"

android:text="Radio Button 1"

android:textStyle="normal"

android:textSize="25dp"

android:textColor="@color/black"

/>

<RadioButton

android:id="@+id/b2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="10dp"

android:text="Radio Button 2"

android:textStyle="normal"

android:textSize="25dp"

android:textColor="@color/black"

/>

<View

android:layout\_width="match\_parent"

android:layout\_height="2dp"

android:background="#000000"

android:layout\_marginTop="50dp"

android:layout\_marginBottom="30dp"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Radio buttons inside radio Group"

android:textSize="34dp"

android:textColor="@color/black"

android:textStyle="bold"

android:gravity="center"

android:layout\_marginTop="20dp"

/>

<RadioGroup

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

>

<RadioButton

android:id="@+id/b3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="25dp"

android:layout\_marginLeft="10dp"

android:text="Male"

android:textStyle="normal"

android:textSize="25dp"

android:textColor="@color/black"

/>

<RadioButton

android:id="@+id/b4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="10dp"

android:text="Female"

android:textStyle="normal"

android:textSize="25dp"

android:textColor="@color/black"

/>

</RadioGroup>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Show Selected"

android:textSize="25dp"

android:layout\_marginTop="25dp"

android:layout\_gravity="center"

android:id="@+id/btn"

android:backgroundTint="@color/black"

/>

</LinearLayout>

Java Code :

package com.example.experimentno12;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Button btn;

RadioButton b1,b2,b3,b4;

String str;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn = (Button) findViewById(R.id.btn);

b1 = (RadioButton) findViewById(R.id.b1);

b2 = (RadioButton) findViewById(R.id.b2);

b3 = (RadioButton) findViewById(R.id.b3);

b4 = (RadioButton) findViewById(R.id.b4);

str = "You have Selected : \n";

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

if(b1.isChecked())

str += b1.getText().toString()+"\n";

if(b2.isChecked())

str += b2.getText().toString()+"\n";

if(b3.isChecked())

str += b3.getText().toString()+"\n";

if(b4.isChecked())

str += b4.getText().toString()+"\n";

Toast.makeText(getApplicationContext(),str,Toast.LENGTH\_LONG).show();

}

});

}

}

Output:

A screenshot of a computer

Description automatically generated