

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-
es/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"
```

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MAD Experiments

```
        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:

