Slip-7

**Q.1**

**XML FILE----**

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/selectedOptionTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Selected Option:"

android:layout\_marginTop="20dp"/>

<RadioGroup

android:id="@+id/radioGroup"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/selectedOptionTextView"

android:layout\_centerHorizontal="true">

<RadioButton

android:id="@+id/radioButtonOption1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Option 1"/>

<RadioButton

android:id="@+id/radioButtonOption2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Option 2"/>

<RadioButton

android:id="@+id/radioButtonOption3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Option 3"/>

</RadioGroup>

</RelativeLayout>

**JAVA FILE----**

package com.example.activitylifecycle;

import android.os.Bundle;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private TextView selectedOptionTextView;

private RadioGroup radioGroup;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

selectedOptionTextView = findViewById(R.id.selectedOptionTextView);

radioGroup = findViewById(R.id.radioGroup);

// Set RadioGroup OnCheckedChangeListener

radioGroup.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener()

{

@Override

public void onCheckedChanged(RadioGroup radioGroup, int checkedId) {

// Find which RadioButton is checked by id

RadioButton radioButton = findViewById(checkedId);

// Display selected option

selectedOptionTextView.setText("Selected Option: " +

radioButton.getText());

}

});

}

}

**Q.2**

**XML FILE---**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<Button

android:id="@+id/buttonTurnOn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Turn On Wi-Fi"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="50dp"/>

<Button

android:id="@+id/buttonTurnOff"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Turn Off Wi-Fi"

android:layout\_below="@id/buttonTurnOn"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"/>

</RelativeLayout>

**JAVA FILE----**

package com.example.myapplication;

import android.content.Context;

import android.net.wifi.WifiManager;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private WifiManager

wifiManager;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

wifiManager = (WifiManager)

getApplicationContext().getSystemService(Context.WIFI\_SERVICE);

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

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

buttonTurnOn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

turnOnWifi();

}

});

buttonTurnOff.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

turnOffWifi();

}

});

}

private void turnOnWifi() {

if

(!wifiManager.isWifiEnabled()) {

wifiManager.setWifiEnabled(true);

}

}

private void turnOffWifi() {

if (wifiManager.isWifiEnabled())

{

wifiManager.setWifiEnabled(false);

}

}

}

**MANIFEST FILE----**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools">

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.MyApplication"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

<uses-permission

android:name="android.permission.CHANGE\_WIFI\_STATE" />

<uses-permission

android:name="android.permission.ACCESS\_WIFI\_STATE"/>

</manifest>