LAYOUT CODE:

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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:id="@+id/activity\_main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#BEC5E1"  
 android:paddingLeft="16dp"  
 android:paddingTop="16dp"  
 android:paddingRight="16dp"  
 android:paddingBottom="16dp"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/wifi\_status"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/wifi\_switch"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginBottom="48dp"  
 android:text="WIFI is currently unavailable"** />  
  
 <**Switch  
 android:id="@+id/wifi\_switch"  
 android:layout\_width="270dp"  
 android:layout\_height="91dp"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginBottom="237dp"  
 android:text="Switch"  
 android:textSize="36sp"** />  
  
 <**ImageView  
 android:layout\_width="350dp"  
 android:layout\_height="350dp"  
 android:src="@drawable/ic\_wifi"** />  
</**RelativeLayout**>

JAVA CODE:

**package** com.example.lab12;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.annotation.SuppressLint;  
**import** android.content.Context;  
**import** android.net.wifi.WifiManager;  
**import** android.os.Bundle;  
**import** android.widget.CompoundButton;  
**import** android.widget.Switch;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 WifiManager **wifiManager**;  
 TextView **wifistatus**;  
 Switch **wifiSwitch**;  
  
  
 @SuppressLint(**"WifiManagerLeak"**)  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **wifiManager** = (WifiManager) getSystemService(Context.***WIFI\_SERVICE***);  
 **wifistatus** = (TextView) findViewById(R.id.***wifi\_status***);  
 **wifiSwitch** = (Switch) findViewById(R.id.***wifi\_switch***);  
 **if**(**wifiManager**.isWifiEnabled()){  
 **wifistatus**.setText(**"Wifi is ON"**);  
 **wifiSwitch**.setChecked(**true**);  
  
 }  
 **else** {  
 **wifistatus**.setText(**"WIFI is OFF"**);  
 **wifiSwitch**.setChecked(**false**);  
  
 }  
 **wifiSwitch**.setOnCheckedChangeListener(**new** CompoundButton.OnCheckedChangeListener() {  
 @Override  
 **public void** onCheckedChanged(CompoundButton buttonView, **boolean** isChecked) {  
 **if**(isChecked) {  
 **wifiManager**.setWifiEnabled(**true**);  
 **wifistatus**.setText(**"Wifi is ON"**);  
 Toast.*makeText*(MainActivity.**this**, **"Wifi may take a moment to connect"**, Toast.***LENGTH\_SHORT***).show();  
  
 }  
 **else** {  
 **wifiManager**.setWifiEnabled(**false**);  
 **wifistatus**.setText(**"Wifi is OFF"**);  
 }  
 }  
 });  
  
 }  
}

MANIFEST CODE:

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.lab12"**>  
 <**uses-permission android:name="android.permission.ACCESS\_WIFI\_STATE"**/>  
 <**uses-permission android:name="android.permission.CHANGE\_WIFI\_STATE"**/>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.LAB12"**>  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

SCREENSHOTS:



