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## EXPERIMENT 8

### WORKING WITH WIFI

**AIM:** To create an application which enables and disables Wi-Fi in your mobile

#### **THEORY:**

Android provides WifiManager API to manage all aspects of WIFI connectivity. We can instantiate this class by calling getSystemService method. Its syntax is given below –

```
WifiManager mainWifiObj;  
mainWifiObj = (WifiManager) getSystemService(Context.WIFI_SERVICE);
```

#### **Permission**

You need to give permissions in your application to access Wi-Fi. Add the below code in AndroidManifest.xml file.

```
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />  
<uses-permission android:name="android.permission.CHANGE_WIFI_STATE" />
```

#### **ASSIGNMENT**

1. Create an application in android that enables and disables Wi-Fi in your mobile.

#### **CODE**

##### **activity\_main.xml**

```
<?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:layout_width="match_parent"  
    android:layout_height="match_parent"  
    tools:context=".MainActivity">  
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text=" WiFi! "  
        android:textSize="25sp"  
        android:textStyle="bold"  
        android:layout_marginTop="40dp"  
        android:layout_centerHorizontal="true"  
        android:id="@+id/textV1"  
    />  
    <Button  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text=" Enable WiFi "
```

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```
        android:onClick="Enable"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/textV1"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/btnEnable"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=" Disable WiFi "
        android:textSize="25sp"
        android:textStyle="bold"
        android:onClick="Disable"
        android:layout_below="@id/btnEnable"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/btnDisable"
    />
</RelativeLayout>
```

### MainActivity.java

```
package com.example.mca1634.wifi enabled disabled;

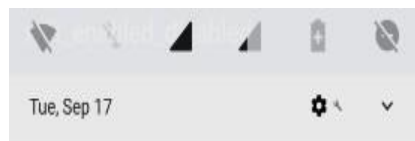
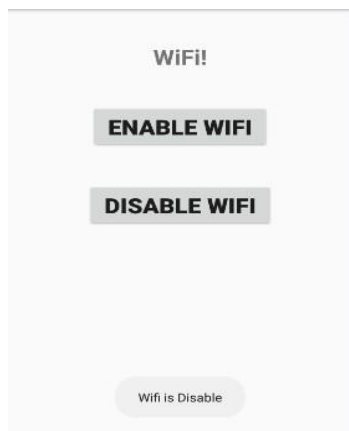
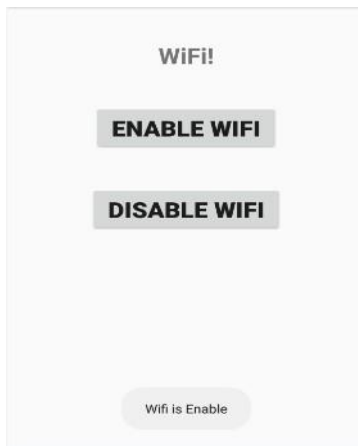
import android.content.Context;
import android.net.wifi.WifiManager;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    Button btnEnable,btnDisable;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnEnable=(Button) findViewById(R.id.btnEnable);
        btnDisable=(Button) findViewById(R.id.btnDisable);
    }
    public void Enable(View V)
    {
        WifiManager wifi=(WifiManager) getSystemService(Context.WIFI_SERVICE);
        wifi.setWifiEnabled(true);
        Toast.makeText(getApplicationContext(), "Wifi is Enable",
Toast.LENGTH_SHORT).show();
    }
    public void Disable(View V)
    {
        WifiManager wifi=(WifiManager) getSystemService(Context.WIFI_SERVICE);
        wifi.setWifiEnabled(false);
    }
}
```

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```
Toast.makeText(getApplicationContext(), "Wifi is Disable",  
Toast.LENGTH_SHORT).show();  
}  
}
```

## OUTPUT



**CONCLUSION:** Successfully executed application in android that enables and disables Wi-Fi in your mobile