

Experiment Number 20 (Exercise 1 and 2):

Write a program to start a Wi-Fi using service.

Write a program to display the following output.

Code for file activity_main.xml location of layout folder

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="10dp"
    android:orientation="vertical"
    android:paddingRight="10dp">

    <Button
        android:id="@+id/btnOn"
        android:layout_width="205dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="70dp"
        android:layout_marginTop="200dp"
        android:onClick="onWifi"
        android:text="Wifi Turn On"
    />

    <Button
        android:id="@+id/btnOFF"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/btnOn"
        android:text="Wifi Turn OFF"
        android:layout_marginLeft="70dp"
        android:onClick="offWifi" />
</LinearLayout>
```

Code for AndroidManifest.xml

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

Code for Activity_Main.java location java folder

```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void onWifi(View v) {
        WifiManager wmgr = (WifiManager)
            getApplicationContext().getSystemService(Context.WIFI_SERVICE);
        wmgr.setWifiEnabled(true);
    }
    public void offWifi(View v) {
        WifiManager wmgr = (WifiManager)
            getApplicationContext().getSystemService(Context.WIFI_SERVICE);
        wmgr.setWifiEnabled(false);
    }
}
```

Output:

