WiFiServiceDemo

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id "
  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">
  <Switch
    android:id="@+id/wifi_switch"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="WiFi is OFF "
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```java
package com.example.wifidemo;

import androidx.appcompat.app.AppCompatActivity;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent; import
android.content.IntentFilter;
import android.net.wifi.WifiManager;
import android.os.Build;
import android.os.Bundle;
import android.widget.CompoundButton;
import android.widget.Switch;

public class MainActivity extends AppCompatActivity {

  private Switch wifiSwitch;
  private WifiManager wifiManager;

  @Override
  protected void onCreate(Bundle savedInstanceState)
    { super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    wifiSwitch = findViewById(R.id.wifi_switch);
    wifiManager = (WifiManager)
getApplicationContext().getSystemService(Context.WIFI_S
ERVICE);

    wifiSwitch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
      @Override
      public void onCheckedChanged(CompoundButton
buttonView, boolean isChecked) {
        if (isChecked)
          { wifiManager.setWifiEnabled(true);
          wifiSwitch.setText("WiFi is ON");
        } else {
          wifiManager.setWifiEnabled(false);
          wifiSwitch.setText("WiFi is OFF");
        }
      }
    });
  }

  @Override
  protected void onStart()
    { super.onStart();
    IntentFilter intentFilter = new
IntentFilter(WifiManager.WIFI_STATE_CHANGED_ACT ION);
    registerReceiver(wifiStateReceiver, intentFilter);
  }

  @Override
  protected void onStop() {
```

```
        super.onStop();

        unregisterReceiver(wifiStateReceiver);

    }
private BroadcastReceiver wifiStateReceiver = new
BroadcastReceiver() {

        @Override

        public void onReceive(Context context, Intent intent)

          { int wifiStateExtra =
 intent.getIntExtra(WifiManager.EXTRA_WIFI_STATE,

                WifiManager.WIFI_STATE_UNKNOWN);


          switch (wifiStateExtra) {

            case WifiManager.WIFI_STATE_ENABLED:

              wifiSwitch.setChecked(true);

              wifiSwitch.setText("WiFi is  ON"); break;

            case WifiManager.WIFI_STATE_DISABLED:

              wifiSwitch.setChecked(false);

              wifiSwitch.setText("WiFi is OFF"); break;

          }

        }

    };

}
```
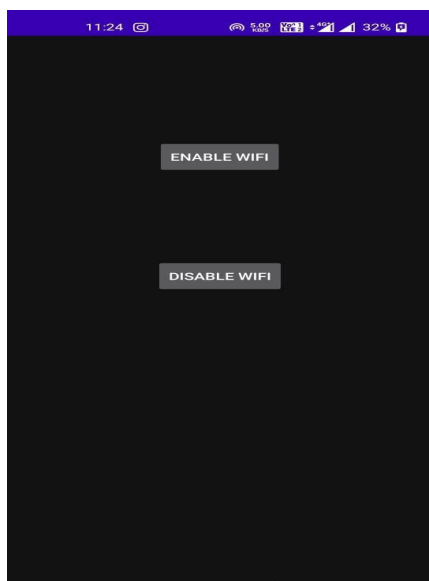
Output:

ServiceApp

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:tools="http://schemas.android.com/tools"

xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_centerVertical="true"
        android:orientation="vertical">

        <Button
            android:id="@+id/buttonStart"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Start Service" />

        <Button
            android:id="@+id/buttonStop"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Stop Service" />

    </LinearLayout>

</RelativeLayout>
```

MainActivity.java

```java
package com.example.serviceapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import
android.view.View; import
android.widget.Button; import
android.widget.Toast;

public class MainActivity extends
AppCompatActivity implements
View.OnClickListener{

    //button objects
    private Button buttonStart;
    private Button buttonStop;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        //getting buttons from xml
        buttonStart = (Button)
findViewById(R.id.buttonStart);
        buttonStop = (Button)
findViewById(R.id.buttonStop);

        //attaching onclicklistener to buttons

buttonStart.setOnClickListener(this);
buttonStop.setOnClickListener(this);
}
@Override
public void onClick(View view)
{if (view == buttonStart) {
Toast.makeText(this, "Service Started",
Toast.LENGTH_SHORT).show();
```

```
} else if (view == buttonStop)
{ Toast.makeText(this, "Service
Stopped",
Toast.LENGTH_SHORT).show();
}
}
}
```

Output :