Practical 8- Using broadcast receiver, create WIFI connectivity

import android.content.BroadcastReceiver;

import android.content.Context;

import android.content.Intent;

import android.content.IntentFilter;

import android.net.wifi.WifiManager;

import android.support.v7.app.AppCompatActivity;

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\_SERVICE);

        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\_ACTION);

        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;

            }

        }

    };

}