Practical 8 -using broadcast receiver, create wifi connectivity .

```java
/.............MainActivity.java............/
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);
```

```java
                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;
            }
        }
    };
}


/............activity_main.xml............/
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
```

```xml
    xmlns:tools="http://schemas.android.
    com/tools"
    android:layout_width="match_parent
    "
    android:layout_height="match_parent
    " tools:context=".MainActivity">

    <Switch
        android:id="@+id/wi
        fi_switch"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="WiFi is OFF "
        app:layout_constraintBottom_toBottomOf="p
        arent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="paren
        t"
        app:layout_constraintTop_toTopOf="parent"
        />

</androidx.constraintlayout.widget.ConstraintLayout>
```
Outputs-

Left screen

2:50   100%

Sat, Apr 4

⚙ Android Setup ⌃

App updates are ready
Connect to Wi-Fi to continue

CONNECT TO WI-FI

Manage notifications

WiFi is ON ⬤

Right screen

2:50 ⚙ ⏰ ⏰ ⏰   ⏰ LTE ◢ 🔋

Practical8

WiFi is OFF ⬤