**PR-9**

**9 Develop program to create a toggle button to display ON / OFF Bluetooth on the display screen.**

**AndroidManifest.xml**

<uses-permission android:name="android.permission.BLUETOOTH" />

<uses-permission android:name="android.permission.BLUETOOTH\_ADMIN" />

**XML Code**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="vertical"

android:gravity="center"

android:padding="24dp"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:id="@+id/titleText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Bluetooth Controller"

android:textSize="22sp"

android:textStyle="bold"

android:layout\_marginBottom="20dp" />

<ToggleButton

android:id="@+id/bluetoothToggle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textOn="Bluetooth ON"

android:textOff="Bluetooth OFF"

android:layout\_marginBottom="20dp" />

<TextView

android:id="@+id/statusText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Bluetooth is OFF"

android:textSize="18sp" />

</LinearLayout>

**Java Code**

package com.example.bluetoothcontroller;

import android.bluetooth.BluetoothAdapter;

import android.os.Bundle;

import android.widget.\*;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

ToggleButton bluetoothToggle;

TextView statusText;

BluetoothAdapter bluetoothAdapter;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

bluetoothToggle = findViewById(R.id.bluetoothToggle);

statusText = findViewById(R.id.statusText);

bluetoothAdapter = BluetoothAdapter.getDefaultAdapter();

if (bluetoothAdapter == null) {

statusText.setText("Bluetooth not supported");

bluetoothToggle.setEnabled(false);

} else {

bluetoothToggle.setChecked(bluetoothAdapter.isEnabled());

updateStatusText(bluetoothAdapter.isEnabled());

bluetoothToggle.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (bluetoothToggle.isChecked()) {

bluetoothAdapter.enable();

Toast.makeText(MainActivity.this, "Bluetooth Turned ON", Toast.LENGTH\_SHORT).show();

updateStatusText(true);

} else {

bluetoothAdapter.disable();

Toast.makeText(MainActivity.this, "Bluetooth Turned OFF", Toast.LENGTH\_SHORT).show();

updateStatusText(false);

}

}

});

}

}

private void updateStatusText(boolean isOn) {

if (isOn) {

statusText.setText("Bluetooth is ON");

} else {

statusText.setText("Bluetooth is OFF");

}

}

}