Q9 WIFI

#MainActivity.java

// MainActivity.java

import android.content.Context;

import android.content.pm.PackageManager;

import android.net.wifi.WifiManager;

import android.os.Build;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

import androidx.core.content.ContextCompat;

public class MainActivity extends AppCompatActivity {

    private static final int PERMISSIONS\_REQUEST\_CODE = 100;

    private Button btnToggleWifi;

    private WifiManager wifiManager;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        btnToggleWifi = findViewById(R.id.btnToggleWifi);

        wifiManager = (WifiManager) getSystemService(Context.WIFI\_SERVICE);

        checkAndRequestPermissions();

        btnToggleWifi.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                toggleWifi();

            }

        });

    }

    private void checkAndRequestPermissions() {

        if (Build.VERSION.SDK\_INT >= Build.VERSION\_CODES.M) {

            if (ContextCompat.checkSelfPermission(this, android.Manifest.permission.CHANGE\_WIFI\_STATE) != PackageManager.PERMISSION\_GRANTED ||

                    ContextCompat.checkSelfPermission(this, android.Manifest.permission.ACCESS\_WIFI\_STATE) != PackageManager.PERMISSION\_GRANTED) {

                ActivityCompat.requestPermissions(this,

                        new String[]{

                                android.Manifest.permission.CHANGE\_WIFI\_STATE,

                                android.Manifest.permission.ACCESS\_WIFI\_STATE

                        },

                        PERMISSIONS\_REQUEST\_CODE);

            }

        }

    }

    private void toggleWifi() {

        if (wifiManager != null) {

            if (wifiManager.isWifiEnabled()) {

                wifiManager.setWifiEnabled(false);

                showToast("Wi-Fi turned OFF");

            } else {

                wifiManager.setWifiEnabled(true);

                showToast("Wi-Fi turned ON");

            }

        }

    }

    private void showToast(String message) {

        Toast.makeText(this, message, Toast.LENGTH\_SHORT).show();

    }

    @Override

    public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions, @NonNull int[] grantResults) {

        super.onRequestPermissionsResult(requestCode, permissions, grantResults);

        if (requestCode == PERMISSIONS\_REQUEST\_CODE) {

            if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION\_GRANTED) {

                // Permissions granted, you can proceed with your actions

            } else {

                // Permissions not granted, inform the user or handle it gracefully

                showToast("Permissions required to toggle Wi-Fi.");

            }

        }

    }

}

#Activity\_Main.xml

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

<RelativeLayout

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

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent"

    android:padding="16dp">

    <Button

        android:id="@+id/btnToggleWifi"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:text="Toggle Wi-Fi"

        android:layout\_centerInParent="true"/>

</RelativeLayout>

#Android\_Manifest

<uses-permission android:name="android.permission.CHANGE\_WIFI\_STATE" />

<uses-permission android:name="android.permission.ACCESS\_WIFI\_STATE" />

Below Package Above <Applicatiion>