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| **Ex. No: 10 Develop an application that enables and disables wifi**  **Date: 12.3.25** |

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**Aim:**

To enables and disables wifi using android studio.

**Procedure:**

**Creating a New project:**

∙ Open Android Studio and then click on **File -> New -> New project**.

∙ Then type the Application name as **“exno1″**and click Next.

∙ Then **select the Minimum SDK** as shown below and click Next.

∙ Then select the **Empty Activity** and click Next.

∙ Finally click **Finish**.

∙ It will take some time to build and load the project.

∙ After completion it will look as given below.

**Designing layout for the Android Application:**

∙ Click on **app -> res -> layout -> activity\_main.xml**.

∙ Now click on Text as shown below.

∙ Then delete the code which is there and type the code as given below.

**Code for Activity\_main.xml:**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 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">  
  
 <Button  
 android:id="@+id/button1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="146dp"  
 android:layout\_marginLeft="76dp"  
 android:layout\_marginEnd="134dp"  
 android:layout\_marginBottom="457dp"  
 android:text="Enable Wifi" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Prithvi C"

android:textColor=”@color/green”  
 android:bgColor="@color/black"

android:textSize="20dp"/>  
  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="131dp"  
 android:layout\_marginBottom="241dp"  
 android:text="Disable Wifi" />  
  
  
</RelativeLayout>

∙ Now click on Design and your application will look as given below.

∙ So now the designing part is completed.

**Java Coding for the Android Application:**

∙ Click on **app -> java -> com.example.exno1 -> MainActivity**.

∙ Then delete the code which is there and type the code as given below. **Code for MainActivity.java:**

package com.example.wifiendi;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Context;  
import android.content.Intent;  
import android.net.wifi.WifiManager;  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button enableButton, disButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 enableButton = findViewById(R.id.button1);  
 disButton = findViewById(R.id.button2);  
  
 enableButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 // Check if the device is running Android 10 (API 29) or higher  
 if (Build.VERSION.SDK\_INT >= Build.VERSION\_CODES.Q) {  
 // Direct the user to the Wi-Fi settings page instead of enabling Wi-Fi programmatically  
 Intent intent = new Intent(android.provider.Settings.ACTION\_WIFI\_SETTINGS);  
 startActivity(intent);  
 } else {  
 // For older versions, Wi-Fi can still be enabled programmatically  
 WifiManager wifiManager = (WifiManager) getApplicationContext().getSystemService(Context.WIFI\_SERVICE);  
 wifiManager.setWifiEnabled(true);  
 }  
 }  
 });  
  
 disButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 // Check if the device is running Android 10 (API 29) or higher  
 if (Build.VERSION.SDK\_INT >= Build.VERSION\_CODES.Q) {  
 // Direct the user to the Wi-Fi settings page instead of disabling Wi-Fi programmatically  
 Intent intent = new Intent(android.provider.Settings.ACTION\_WIFI\_SETTINGS);  
 startActivity(intent);  
 } else {  
 // For older versions, Wi-Fi can still be disabled programmatically  
 WifiManager wifiManager = (WifiManager) getApplicationContext().getSystemService(Context.WIFI\_SERVICE);  
 wifiManager.setWifiEnabled(false);  
 }  
 }  
 });  
 }  
}

**Output:**

A screenshot of a phone

AI-generated content may be incorrect.

A close-up of a phone screen

AI-generated content may be incorrect.

**Result:**

Thus a Simple Android Application has done to enables and disables wifi.