**16.Connecting to Wi-Fi Network using ESP 32(Practical)**

#include "WiFi.h"

// Replace with your Wi-Fi credentials

const char\* ssid = "Your\_SSID";

const char\* password = "Your\_PASSWORD";

void setup() {

    Serial.begin(115200);

    WiFi.begin(ssid, password);  // Start Wi-Fi connection

    Serial.print("Connecting to Wi-Fi");

    // Wait until connected

    while (WiFi.status() != WL\_CONNECTED) {

        delay(500);

        Serial.print(".");

    }

    Serial.println("\nWi-Fi Connected!");

    Serial.print("IP Address: ");

    Serial.println(WiFi.localIP());  // Display ESP32 IP address

}

void loop() {

    // Your main code here (e.g., HTTP requests, MQTT, etc.)

}

Output:

Wi-Fi Connected!

IP Address: 192.168.43.202

**16.Signal Strength Identification of Wi-Fi Network using ESP 32(Skill)**

#include <WiFi.h>

const char\* ssid = "SSID";   /\*Replace SSID of your network\*/

const char\* password = "PASSWORD"; /\*Replace with Password of your Network\*/

void initWiFi() {

  WiFi.mode(WIFI\_STA);  /\*Initialize ESP32 WiFi in station mode\*/

  WiFi.begin(ssid, password); /\*Begin WiFi connection\*/

  Serial.print("Connecting to WiFi ..");

  while (WiFi.status() != WL\_CONNECTED) {

    Serial.print('.');

    delay(1000);

  }

  Serial.println(WiFi.localIP());  /\*Print local IP address of ESP32\*/

}

void setup() {

  Serial.begin(115200); /\*Baud Rate for serial communication\*/

  initWiFi();  /\*Initialize WiFi\*/

  Serial.print("Connected Network Signal Strength (RSSI): ");

  Serial.println(WiFi.RSSI());  /\*Print WiFi signal strength\*/

}

void loop() {

}

**Ouput:**

Connecting to WiFi ...192.168.158.201

Connected Network Signal Strength (RSSI): -54