18.Wi-Fi station using ESP 32(Practical)

#include "WiFi.h"

const char\* ssid = "Your\_SSID";       // Replace with your Wi-Fi network name

const char\* password = "Your\_PASSWORD"; // Replace with your Wi-Fi password

void setup() {

    Serial.begin(115200);

    WiFi.mode(WIFI\_STA);  // Set ESP32 to Station mode

    WiFi.begin(ssid, password);

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

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

        delay(500);

        Serial.print(".");

    }

    Serial.println("\nConnected to Wi-Fi!");

    Serial.print("ESP32 IP Address: ");

    Serial.println(WiFi.localIP());  // Get ESP32 IP Address

}

void loop() {

    if (WiFi.status() == WL\_CONNECTED) {

        Serial.println("ESP32 is connected to Wi-Fi");

    } else {

        Serial.println("ESP32 lost connection, trying to reconnect...");

        WiFi.disconnect();

        WiFi.reconnect();

    }

    delay(10000); // Check status every 10 seconds

}

Output:

ho 8 tail 4 room 4

load:0x40080404,len:3524

entry 0x400805b8

Connecting to Wi-Fi.

Connected to Wi-Fi!

ESP32 IP Address: 192.168.43.202

ESP32 is connected to Wi-Fi

18.Get the IP address of ESP 32(Skill)

#include "WiFi.h"

const char\* ssid = "Your\_SSID";        // Replace with your Wi-Fi network name

const char\* password = "Your\_PASSWORD"; // Replace with your Wi-Fi password

void setup() {

    Serial.begin(115200);

    WiFi.mode(WIFI\_STA);  // Set ESP32 to Station mode

    WiFi.begin(ssid, password);

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

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

        delay(500);

        Serial.print(".");

    }

    Serial.println("\nConnected to Wi-Fi!");

    Serial.print("ESP32 IP Address: ");

    Serial.println(WiFi.localIP());  // Print ESP32 IP Address

}

void loop() {

    // Nothing required in the loop

}

Output:

Connecting to Wi-Fi.

Connected to Wi-Fi!

ESP32 IP Address: 192.168.43.202