**17.Wi-Fi reconnect using Esp 32(Practical)**

#include "WiFi.h"

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

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

void WiFiEvent(WiFiEvent\_t event) {

    switch (event) {

        case WIFI\_EVENT\_STA\_DISCONNECTED: // Corrected event name

            Serial.println("Wi-Fi Disconnected! Reconnecting...");

            WiFi.disconnect();

            WiFi.reconnect();

            break;

        default:

            break;

    }

}

void setup() {

    Serial.begin(115200);

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

    WiFi.onEvent(WiFiEvent); // Attach event handler

    WiFi.begin(ssid, password);

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

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

        delay(500);

        Serial.print(".");

    }

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

    Serial.print("IP Address: ");

    Serial.println(WiFi.localIP());

}

void loop() {

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

        Serial.println("Lost Wi-Fi connection. Trying to reconnect...");

        WiFi.disconnect();

        WiFi.reconnect();

        delay(5000);

    } else {

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

    }

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

}

Output:

Connecting to Wi-Fi.

Wi-Fi Connected!

IP Address: 192.168.43.202

Wi-Fi is connected

Wi-Fi is connected

Wi-Fi is connected

Wi-Fi is connected

Wi-Fi is connected

17.Get and Set MAC address of ESP 32(Skill)

#include "WiFi.h"

#include "esp\_wifi.h"

uint8\_t customMAC[] = {0x24, 0x0A, 0xC4, 0x56, 0x78, 0x90};  // Custom MAC Address

void setup() {

    Serial.begin(115200);

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

    WiFi.disconnect();

    // Set custom MAC address

    if (esp\_wifi\_set\_mac(WIFI\_IF\_STA, customMAC) == ESP\_OK) {

        Serial.println("Custom MAC Address set successfully!");

    } else {

        Serial.println("Failed to set MAC Address.");

    }

    // Print the new MAC address

   WiFi.begin("Your\_SSID", "Your\_PASSWORD"); // Connect to Wi-Fi

    Serial.print("New MAC Address: ");

    Serial.println(WiFi.macAddress());

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

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

        delay(500);

        Serial.print(".");

    }

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

    Serial.print("IP Address: ");

    Serial.println(WiFi.localIP());

}

void loop() {

    // Nothing required in the loop

}

Output:

Custom MAC Address set successfully!

New MAC Address: 24:0A:C4:56:78:90

Connecting to Wi-Fi.

Wi-Fi Connected!

IP Address: 192.168.43.108