Need to create a file in the program called ‘mbed\_app.json’ and put the following code in

{

    "config": {

        "wifi-ssid": {

            "value": "\"LetsGoPens\""

        },

        "wifi-password": {

            "value": "\"\*\*\*\*\*\*\*\*\*\*\""

        }

    },

    "target\_overrides": {

        "\*": {

            "platform.stdio-baud-rate": 115200,

            "wifi-ssid": "\"LetsGoPens\"",

            "wifi-password": "\"\*\*\*\*\*\*\*\*\*\*\"",

            "nsapi.default-wifi-ssid": "\"LetsGoPens\"",

            "nsapi.default-wifi-password": "\"\*\*\*\*\*\*\*\*\*\*\"",

            "nsapi.default-wifi-security": "WPA\_WPA2"

        }

    }

}

Need to drag and drop the wifi-ism43362-master file that I got from github to the project

Or maybe this link:

https://github.com/ARMmbed/wifi-ism43362.git

Code for main.cpp to connect to Wifi:

#include "mbed.h"

#include "WiFiInterface.h"

#include "TCPSocket.h"

#include "SocketAddress.h"

// Initialize serial output

UnbufferedSerial pc(USBTX, USBRX, 115200);

// Function to print messages over serial

void print\_serial(const char \*message) {

    pc.write(message, strlen(message));

    pc.write("\r\n", 2);

}

int main() {

    print\_serial("Starting Wi-Fi Test...");

    // Get the default Wi-Fi interface

    WiFiInterface \*wifi = WiFiInterface::get\_default\_instance();

    if (!wifi) {

        print\_serial("ERROR: No Wi-Fi interface found.");

        return -1;

    }

    // Replace with your Wi-Fi credentials

    const char \*ssid = "LetsGoPens";  // Your Wi-Fi SSID

    const char \*password = "\*\*\*\*\*\*\*\*\*\*";  // Your Wi-Fi password

    // Connect to Wi-Fi

    print\_serial("Connecting to Wi-Fi...");

    int ret = wifi->connect(ssid, password, NSAPI\_SECURITY\_WPA\_WPA2);

    if (ret != 0) {

        print\_serial("Wi-Fi connection failed!");

        return -1;

    }

    // Print IP address

    SocketAddress ip;

    wifi->get\_ip\_address(&ip);

    print\_serial("Connected! IP Address:");

    print\_serial(ip.get\_ip\_address());

    // Create a TCP socket to check internet connectivity

    TCPSocket socket;

    ret = socket.open(wifi);

    if (ret != 0) {

        print\_serial("Socket open failed!");

        return -1;

    }

    // Try to resolve example.com

    SocketAddress address;

    ret = wifi->gethostbyname("example.com", &address);

    if (ret != 0) {

        print\_serial("DNS resolution failed!");

    } else {

        print\_serial("DNS resolved! Host IP:");

        print\_serial(address.get\_ip\_address());

    }

    // Disconnect Wi-Fi

    wifi->disconnect();

    print\_serial("Wi-Fi Disconnected.");

    return 0;

}