

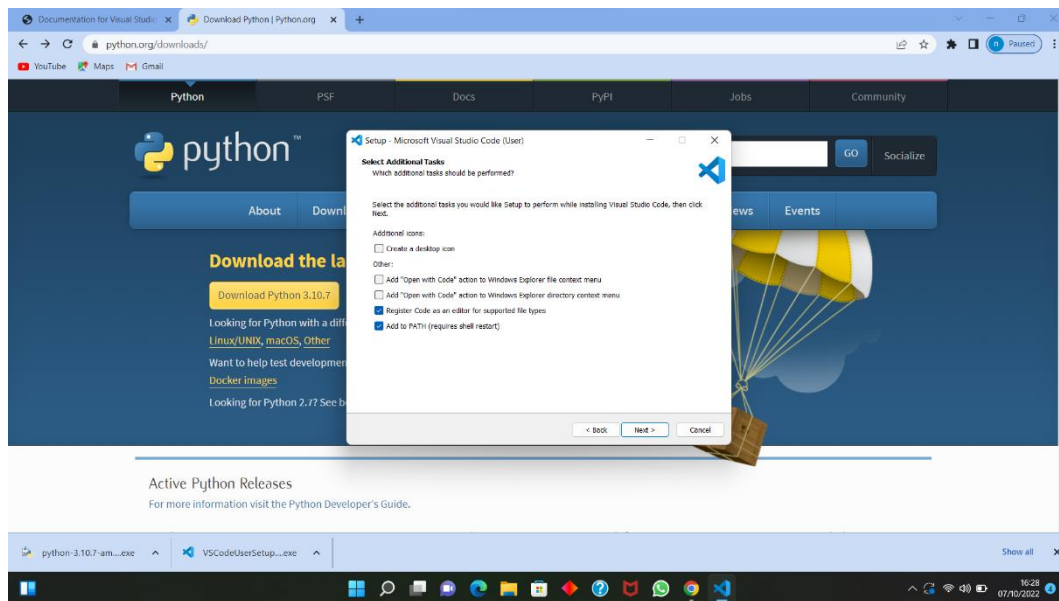
Nama : Muhamad Rafly Aditya

NIM : 3332200090

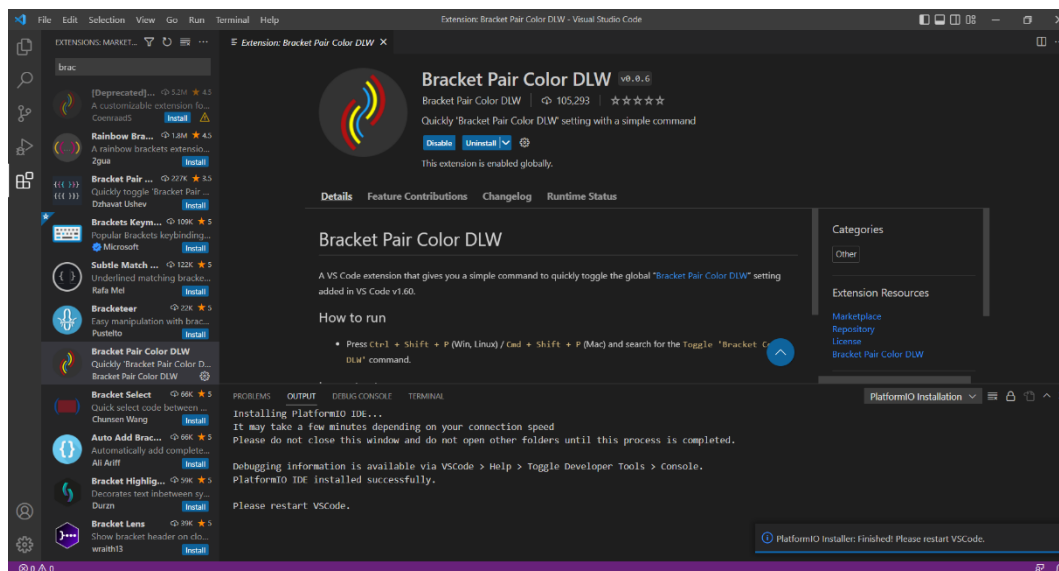
Mata Kuliah: Sistem Embedded

## Tugas 3

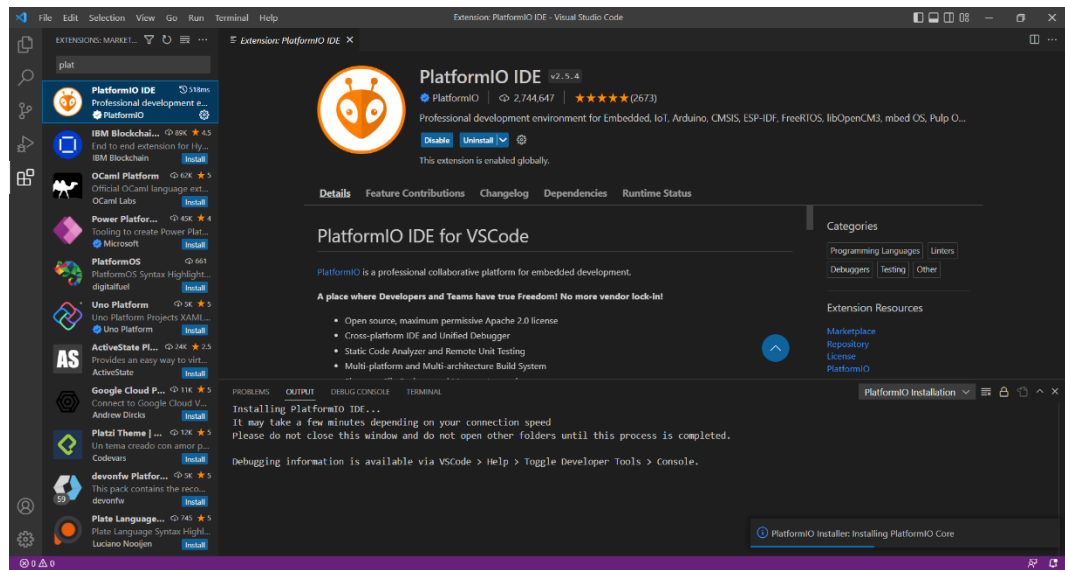
### 1. Mendoenload Aplikasi Visual Studio Code



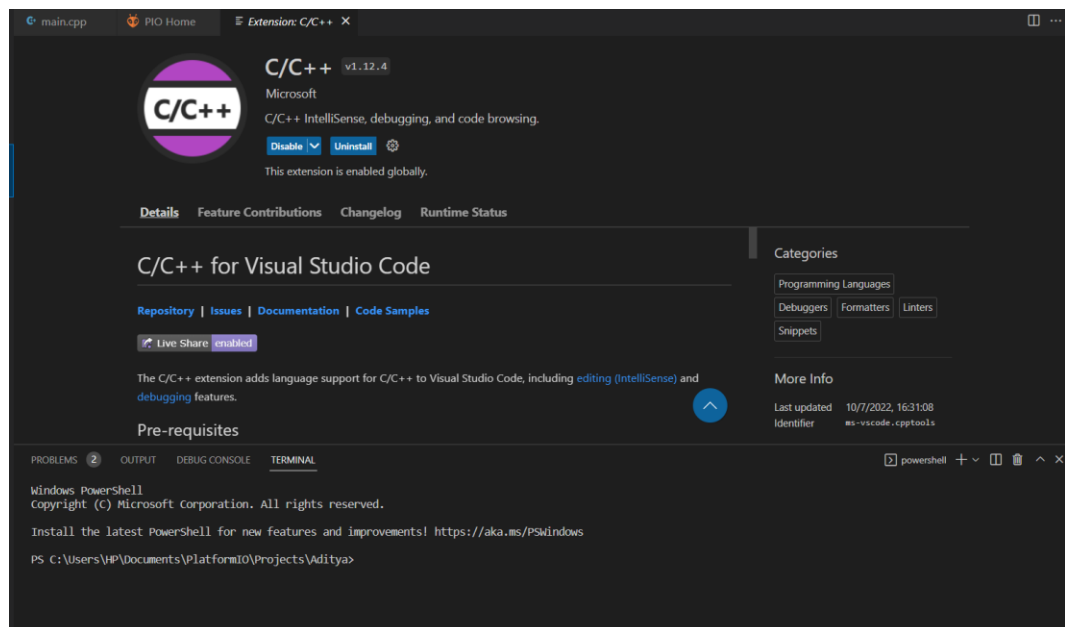
### 2. Menginstal Bracket Pair Color



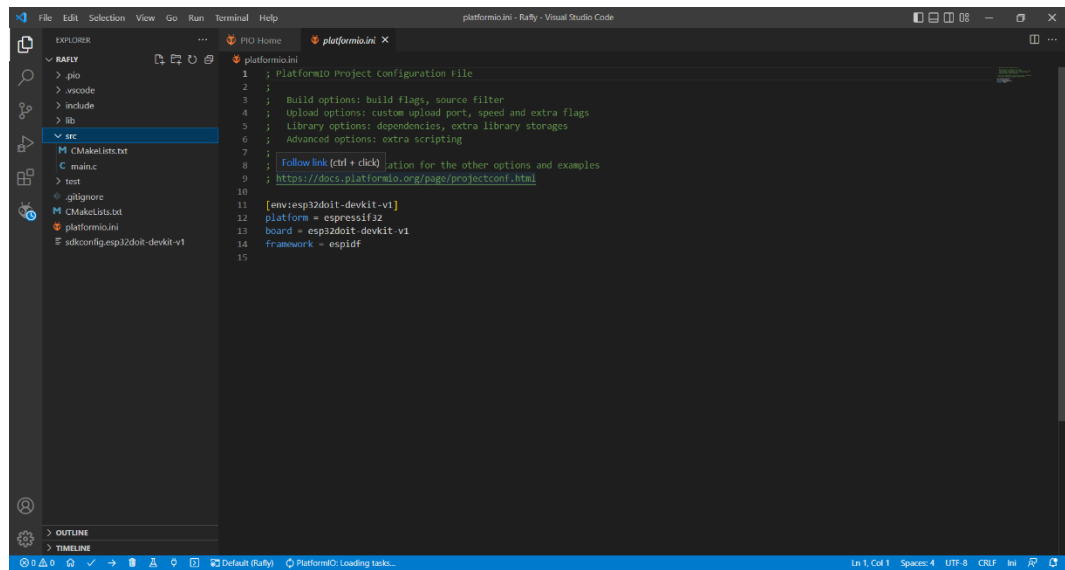
### 3. Menginstall PlatformIO IDE



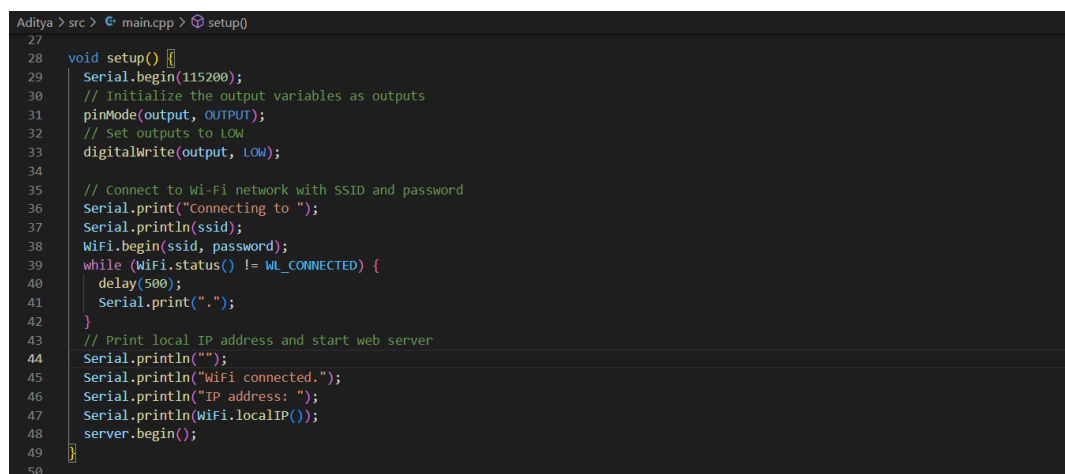
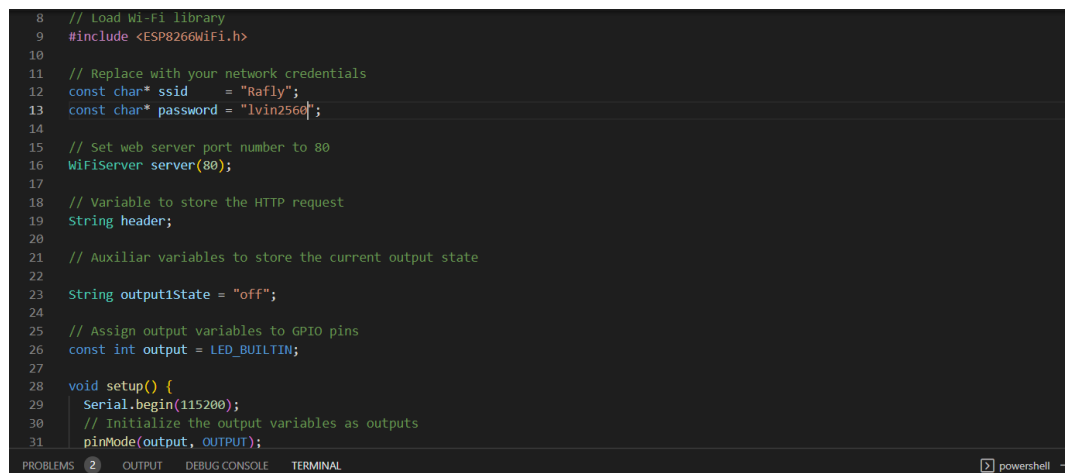
#### 4. Menginstall C/C++



#### 5. Membuat File pada Visual Studio Code



## 6. Membuat Listing Code pada Visual Code



```
Aditya > src > main.cpp > setup()
50
51 void loop(){
52     WiFiClient client = server.available(); // Listen for incoming clients
53
54     if (client) {
55         //Serial.println("New Client.");      // If a new client connects,
56         // print a message out in the serial port
57         String currentLine = "";             // make a String to hold incoming data from the client
58         while (client.connected()) {         // loop while the client's connected
59             if (client.available()) {         // if there's bytes to read from the client,
60                 char c = client.read();      // read a byte, then
61                 // Serial.write(c);          // print it out the serial monitor
62                 header += c;
63                 if (c == '\n') {              // if the byte is a newline character
64                     // if the current line is blank, you got two newline characters in a row.
65                     // that's the end of the client HTTP request, so send a response:
66                     if (currentLine.length() == 0) {
67                         // HTTP headers always start with a response code (e.g. HTTP/1.1 200 OK)
68                         // and a content-type so the client knows what's coming, then a blank line:
69                         client.println("HTTP/1.1 200 OK");
70                         client.println("Content-type:text/html");
71                         client.println("Connection: close");
72                         client.println();
73                     }
74                 }
75             }
76         }
77     }
78     // turns the GPIOs on and off
79 }
```

```
73 // turns the GPIOs on and off
74 if (header.indexOf("GET /1/on") >= 0) {
75     Serial.println("RLOW01");
76     digitalWrite(output, HIGH);
77 } else if (header.indexOf("GET /1/off") >= 0) {
78     //Serial.println("GPIO 5 off");
79     Serial.println("RLOW01");
80     digitalWrite(output, LOW);
81 }
82
83 // Display the HTML web page
84 client.println("<!DOCTYPE html><html>");
85 client.println("<head><meta name='viewport' content='width=device-width, initial-scale=1'>");
86 client.println("<link rel='icon' href='data:;'>");
87 // CSS to style the on/off buttons
88 // Feel free to change the background-color and font-size attributes to fit your preferences
89 client.println("<style>html { font-family: Helvetica; display: inline-block; margin: 0px auto; text-align: center;};");
90 client.println("<button { background-color: #195B6A; border: none; color: white; padding: 16px 40px;");
91 client.println("<text-decoration: none; font-size: 30px; margin: 2px; cursor: pointer;});");
92 client.println("<button2 {background-color: #77878A;}</style></head>");
93
94
95 }
```

```
Aditya > src > main.cpp > setup()
96 // Web Page Heading
97 client.println("<body><h1>ESP8266 Web Server</h1>");
98
99 // Display current state, and ON/OFF buttons for GPIO 5
100 client.println("<p>GPIO 1 - State " + output1State + "</p>");
101 // If the output1State is off, it displays the ON button
102 if (output1State=="off") {
103     client.println("<p><a href='/1/on'><button class='button'>ON</button></a></p>");
104 } else {
105     client.println("<p><a href='/1/off'><button class='button button2'>OFF</button></a></p>");
106 }
107
108 client.println("</body></html>");
109
110 // The HTTP response ends with another blank line
111 client.println();
112 // Break out of the while loop
113 break;
114 } else { // if you got a newline, then clear currentLine
115     currentLine = "";
116 }
117 } else if (c != '\r') { // if you got anything else but a carriage return character,
118     currentLine += c; // add it to the end of the currentLine
119 }
```

