Project development phase - sprint 2

Date:	8 th november 2022	
Student name:	Haripriya.U	
Register number:	510119106002	
Project name:	Signs with smart connectivity for bettr road safety	

Configure open weather map services.

Code:

```
#include <WiFi.h>
const char* host = "api.openweathermap.org";
//http://api.openweathermap.org/data/2.5/weather?q=Porto,PT\&APPID=bb3bbf44669b2a4d7a0d02794894ebda
void setup() {
 Serial.begin(9600);
 Serial.print("Connecting to WiFi");
 WiFi.begin("Wokwi-GUEST", "", 6);
 while (WiFi.status() != WL_CONNECTED) {
   delay(100);
   Serial.print(".");
 Serial.println(" Connected!");
}
int value = 0;
void loop()
    delay(5000);
    ++value;
   Serial.print("connecting to ");
   Serial.println(host);
   // Use WiFiClient class to create TCP connections
   WiFiClient client;
   const int httpPort = 80;
   if (!client.connect(host, httpPort)) {
       Serial.println("connection failed");
       return;
    }
   // We now create a URI for the request
   String url = "/data/2.5/weather?q=Porto,PT&APPID=27c3fd2d668ceb8332f42e3b4f943524";
    Serial.print("Requesting URL: ");
    Serial.println(url);
```

```
// This will send the request to the server
     client.print(String("GET ") + url + " HTTP/1.1\r\n" +
                        "Host: " + host + "\r\n" +
                        "Connection: close\r\n\r\n");
     unsigned long timeout = millis();
     while (client.available() == 0) {
          if (millis() - timeout > 5000) {
                Serial.println(">>> Client Timeout !");
                client.stop();
                return;
           }
     }
     // Read all the lines of the reply from server and print them to Serial
     while(client.available()) {
           String line = client.readStringUntil('\r');
           Serial.print(line);
     }
     Serial.println();
     Serial.println("closing connection");
}
                                                                                                                             v - Ō X
 x | W sketch.ino - Wokwi Arduino and | x | +
                                                                                                                           增 ☆ 第 □ 🔮 :
 ← → C • wokwi.com/projects/343510677711749715
 WOKWi
                                                                                                                                 Docs
                                                                         Simulation
    1 #include <WiFi.h>
                                                                                                                               Ō00:11.762 (⁴)98%
       const char* host = "api.openweathermap.org";
       //http://api.openweathermap.org/data/2.5/weather?q=Porto,PT&APPID=bb3bbf44669b2a4d7a0d0
       void setup() {
        Serial.begin(9600);
Serial.print("Connecting to WiFi");
        WiFi.begin("Wokwi-GUEST", "", 6);
        while (WiFi.status() != WL_CONNECTED) {
          delay(100);
          Serial print(".");
   13
14
        Serial.println(" Connected!");
   17
       int value = 0:
   20
21
          delay(5000);
   23
24
          Serial.print("connecting to ");
          Serial.println(host);
                                                                       sky", "icon": "01d"}], "base": "stations
                                                                       {"temp":286.83,"feels_like":286.53,"temp_min":285.48,"temp_max":289.98,"pressure":1
   27
          // Use WiFiClient class to create TCP connections
          WiFiClient client;
                                                                       018, "humidity":87}, "visibility":10000, "wind":{"speed":4.12, "deg":130}, "clouds":
          const int httpPort = 80;
                                                                       {"all":0},"dt":1668330277,"sys":
          \quad \text{if (!client.connect(host, httpPort)) } \{\\
                                                                      {"type":2,"id":2009460,"country":"PT","sunrise":1668323986,"sunset":1668359870},"ti
   31
             Serial.println("connection failed");
                                                                       mezone":0,"id":2735943,"name":"Porto","cod":200}
            return;
                                                                       closing connection
                                                                                                                                   // We now create a URI for the request
                                                                                                                        🔡 P 🖿 D 📮 C 🛢 🚱 💆 🔟 🔘
```

