**Tugas Pertemuan 11**

(Evy Nur Imamah / IoT 1)

Tugas IoT: 11-HTTP menggunakan ESP32

Buatlah sebuah program Arduino untuk ESP32 untuk melakukan HTTP request dengan method POST pada API: https://api.restful-api.dev/objects

Dengan data yang di-post adalah:

{

"name": "temperature\_sensor",

"data": {

"celcius": 25,

"fahrenheit": 77

}

}

Jawaban :

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| #include <WiFi.h>  #include <HTTPClient.h>  const char\* ssid = "YourWiFiSSID";  const char\* password = "YourWiFiPassword";  void setup() {  **Serial**.begin(115200);    delay(100);    // Connect ke WiFi    WiFi.begin(ssid, password);    while (WiFi.status() != WL\_CONNECTED) {      delay(1000);  **Serial**.println("Connecting to WiFi..");    }  **Serial**.println("Connected to WiFi");    // Mengirimkan request pada HTTP    sendPostRequest();  }  void loop() {    //  }  void sendPostRequest() {    if (WiFi.status() == WL\_CONNECTED) {      HTTPClient http;      // Endpoint API      String serverAddress = "https://api.restful-api.dev/objects";      // Data akan di upload      String postData = "{\"name\": \"temperature\_sensor\", \"data\": {\"celcius\": 25, \"fahrenheit\": 77}}";      // memulai request HTTP Post      http.begin(serverAddress);      // atur type content – pakai Json saja      http.addHeader("Content-Type", "application/json");      // Kirim HTTP Respons      int httpResponseCode = http.POST(postData);      if (httpResponseCode > 0) {  **Serial**.print("HTTP Response code: ");  **Serial**.println(httpResponseCode);        String response = http.getString();  **Serial**.println(response);      } else {  **Serial**.print("Error code: ");  **Serial**.println(httpResponseCode);      }      http.end();    } else {  **Serial**.println("Error in WiFi connection");    }  } |