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 :

```
#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");
```