

```

// This example sends data to multiple variables to
// Ubidots through HTTP protocol.

/*****
 * Include Libraries
 *****/

#include "Ubidots.h"

/*****
 * Define Instances and Constants
 *****/
int Len_A = D1;
int Len_B = D2;
int Len_C = D3;
int Len_D = D4;
int Led_A = D5;
int Led_B = D6;
int Led_C = D7;
int Led_D = D8;
const char* UBIDOTS_TOKEN = "BBFF-UAXxUtHas9X4k0VBuo0WNsJQUteUHF"; // Put here your Ubidots TOKEN
const char* WIFI_SSID = "TRAFFIC"; // Put here your Wi-Fi SSID
const char* WIFI_PASS = "1234567890"; // Put here your Wi-Fi password

Ubidots ubidots(UBIDOTS_TOKEN, UBI_HTTP);

/*****
 * Auxiliar Functions
 *****/

// Put here your auxiliar functions

```

```
/******  
 * Main Functions  
*****/  
  
void setup()  
{  
  Serial.begin(115200);  
  
  //----CONNECTING TO WIFI----//  
  ubidots.wifiConnect(WIFI_SSID, WIFI_PASS);  
  // ubidots.setDebug(true); // Uncomment this line for printing debug messages  
  
  //----SETTING PIN CONFIGURATIONS----//  
  pinMode(Len_A, OUTPUT);  
  pinMode(Len_B, OUTPUT);  
  pinMode(Len_C, OUTPUT);  
  pinMode(Len_D, OUTPUT);  
  pinMode(Led_A,OUTPUT);  
  pinMode(Led_B,OUTPUT);  
  pinMode(Led_C,OUTPUT);  
  pinMode(Led_D,OUTPUT);  
  //----SERIAL INITIALIZATION----//  
  Serial.println("Setup Completed");  
  delay(500);  
}
```

```
void loop()
{
    //----GETTING VARIABLE VALUE FROM UBIIDOTS----//
    int A = ubidots.get("bcddc2b39b74","lane-a"); // Change for your variable name
    int B = ubidots.get("bcddc2b39b74","lane-b"); // Change for your variable name
    int C = ubidots.get("bcddc2b39b74","lane-c"); // Change for your variable name
    int D = ubidots.get("bcddc2b39b74","lane-d"); // Change for your variable name
    if (A != ERROR_VALUE) {
        Serial.print("Value A : ");
        Serial.println(A);
    }
    if (B != ERROR_VALUE) {
        Serial.print("Value B : ");
        Serial.println(B);
    }
    if (C != ERROR_VALUE) {
        Serial.print("Value C : ");
        Serial.println(C);
    }
    if (D != ERROR_VALUE) {
        Serial.print("Value D : ");
        Serial.println(D);
    }
}
```

```
if(A==1)
{
    digitalWrite(Led_A,HIGH);
    digitalWrite(Len_A,HIGH);
}
else
{
    digitalWrite(Led_A,LOW);
    digitalWrite(Len_A,LOW);
}
if(B==1)
{
    digitalWrite(Led_B,HIGH);
    digitalWrite(Len_B,HIGH);
}
else
{
    digitalWrite(Led_B,LOW);
    digitalWrite(Len_B,LOW);
}
if(C==1)
{
    digitalWrite(Led_C,HIGH);
    digitalWrite(Len_C,HIGH);
}
else
{
    digitalWrite(Led_C,LOW);
    digitalWrite(Len_C,LOW);
}
if(D==1)
{
    digitalWrite(Led_D,HIGH);
    digitalWrite(Len_D,HIGH);
}
else
{
    digitalWrite(Led_D,LOW);
    digitalWrite(Len_D,LOW);
}

Serial.println("DONE!!!");
delay(1000);
}
```