

## CODE

```
#define BLYNK_PRINT Serial

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

#define BLYNK_TEMPLATE_ID "TMPL3-ueew2F8"

#define BLYNK_TEMPLATE_NAME "Obstacle Detection"

#define BLYNK_AUTH_TOKEN "hbmUCri3S4-vVwwTmNrQc_RClliPrFeD"

// Your WiFi credentials.

// Set password to "" for open networks.S

char auth[] = "hbmUCri3S4-vVwwTmNrQc_RClliPrFeD";

char ssid[] = "K1ЯΛ";

char pass[] = "520 1314";

#define echoPin D6

#define trigPin D5

long duration;

int distance;

void ultrasonic()

{

    digitalWrite(trigPin, LOW);

    delayMicroseconds(2);

    digitalWrite(trigPin, HIGH);

    delayMicroseconds(10);

    digitalWrite(trigPin, LOW);

    duration = pulseIn(echoPin, HIGH); //read high pulse and store
```

```
distance = duration * 0.034 / 2; //formula to calculate the distance for ultrasonic sensor

Serial.print("Distance: ");

Serial.println(distance);

Blynk.virtualWrite(V0, distance);

delay(500);

}

void setup()

{

  Serial.begin(9600);

  pinMode(trigPin, OUTPUT);

  pinMode(echoPin, INPUT);

  Blynk.begin(auth,ssid,pass);

  delay(2000);

}

void loop()

{

  Blynk.run();

  ultrasonic();

}
```