

# PROJECT DEVELOPMENT PHASE

## SPRINT 4

```
#define DHTPIN 2

#define DHTTYPE DHT11

DHT dht(DHTPIN, DHTTYPE);

BlynkTimer timer;

void sendSensor()
{
  float h = dht.readHumidity();
  float t = dht.readTemperature();

  if (isnan(h) || isnan(t)) {
    Serial.println("Failed to read from DHT sensor!");
    return;
  }
  Blynk.virtualWrite(V5, h);
  Blynk.virtualWrite(V6, t);
}

void setup()
{
```

```

Serial.begin(115200);

Blynk.begin(auth, ssid, pass);

dht.begin();

timer.setInterval(1000L, sendSensor);

}

void loop()

{

Blynk.run();

timer.run();

}

```

temp.ino

```

1  #define BLYNK_TEMPLATE_ID "TMPL-NbHpP0f"
2  #define BLYNK_DEVICE_NAME "GPS and TEMP"
3  #define BLYNK_AUTH_TOKEN "CtqYTh0abYlqDm8PHHjIVJk4lvxd8oW8"
4  #define BLYNK_PRINT Serial
5  #include <ESP8266WiFi.h>
6  #include <BlynkSimpleEsp8266.h>
7  #include <DHT.h>
8  char auth[] = BLYNK_AUTH_TOKEN;
9  char ssid[] = "Harleyew";
10 char pass[] = "0123456789";
11
12 #define DHTPIN 2
13 #define DHTTYPE DHT11
14
15 DHT dht(DHTPIN, DHTTYPE);
16 BlynkTimer timer;
17 void sendSensor()
18 {
19   float h = dht.readHumidity();
20   float t = dht.readTemperature();
21
22   if (!isnan(h) || !isnan(t)) {

```

Output

```

RODATA : 2516 ) / 81920 - constants      (global, static) in RAM/HEAP

BSS    : 26696 )      - zeroed variables  (global, static) in RAM/HEAP

Sketch uses 285357 bytes (27%) of program storage space. Maximum is 1044464 bytes.
Global variables use 30768 bytes (37%) of dynamic memory, leaving 51152 bytes for local variables. Max

```

Done compiling.

Ln 29, Col 13 UTF-8 NodeMCU 1.0 (ESP-12E Module) [not connected]