

PROJECT DEVELOPMENT PHASE

SPRINT 2

```
#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 "CtqYTh0abYlqDmB4HHjIVJk41vxdBow8"
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[] = "Harleyw";
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. Maximum is 65536 bytes.

```

Done compiling.

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