

Laporan 2-6 LAB Challenge

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1. Code Arduino IDE

```
#include "DHT.h"

#define DHTPIN 2

#define DHTTYPE DHT11

DHT dht(DHTPIN, DHTTYPE);

int dataheader = 1;
int loaddata = 0;
String datashow = "";

float h, hnew;
float t, tnew;
float f, fnew;

void setup() {
  Serial.begin(9600);
  dht.begin();
}

void header() {
  Serial.println("Kelembaban  Temperatur  Temperatur");
  Serial.println("      %      Celcius      Fahrenheit");
}
```

```

void output(){
    if((h==hnew)&&(t==tnew)&&(f==fnew)){
        loaddata = loaddata+1;
        if(loaddata>20){
            datashow = "";
        }else{
            datashow = datashow + ". ";
        }
        Serial.println(datashow);
    }else{
        loaddata = 0;
        datashow = "";
        Serial.println(String(h)+"          "+String(t)+"          "+String(f));
    }
    hnew = h;
    tnew = t;
    fnew = f;
    dataheader = dataheader+1;
    if(dataheader>=6){
        dataheader = 1;
    }
}

void loop() {
    if(dataheader == 1){
        header();
    }
    delay(5000);
}

```

```

h = dht.readHumidity();
t = dht.readTemperature();
f = dht.readTemperature(true);

output();
}

```

2. Output Serial Monitor



