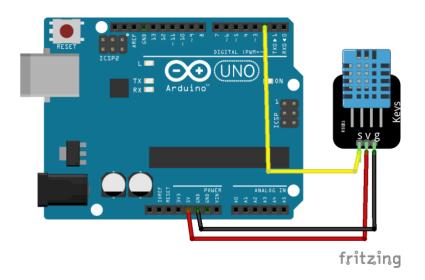# DHT

❖ **PROGRAM**

PROGRAM

#include<Dht.h>

#define Dht_apin A0

 long int CN1=9,IN1=10,IN2=11,en1=1;

float a,b;

void setup() {

  // put your setup code here, to run once:

  Serial.begin(9600);

  delay(500);

  Serial.println("DHT11 humidity and temperature sensor\n\n");

  delay(1000);

  pinMode(CN1, OUTPUT);

  pinMode(IN1, OUTPUT);

  pinMode(IN2, OUTPUT);

  DHT.begin()

```
}

void loop() {
  // put your main code here, to run repeatedly:
  a = dHT.readTemperature();
  delay(1000);
  if(a>=30)
  {
    digitalWrite(en1, HIGH);
    digitalWrite(IN1, HIGH);
    digitalWrite(IN2, LOW);
    delay(1000);
  }
  Serial.println("C",a);


  a = dHT.readHumidity();
  Serial.println(" %");
  delay(1000);
}
```

What is a DHT11 Sensor?

DHT11 is a low-cost digital sensor for sensing temperature and humidity. This sensor can be easily interfaced with any micro-controller such as Arduino, Raspberry Pi etc… to measure humidity and temperature instantaneously.

DHT11 humidity and temperature sensor is available as a sensor and as a module. The difference between this sensor and module is the pull-up resistor and a power-on LED. DHT11 is a relative humidity sensor. To measure the surrounding air this sensor uses a thermistor and a capacitive humidity sensor.

Video

https://drive.google.com/file/d/19PfqNpF0EpnFciX-u2hXe-WkCKGzHzGV/view?usp=drivesdk