## SMART ELECTRIC VEHICLES MINOR Experiment 3

**AIM:** To interface DHT11/DHT22, pressure, voltage and current sensor date input to ESP8266

OBJECTIVE: To write a code in Arduino IDE and find out reading for DTH 11

**THEORY:** DHT11/22: The DHT11 detects water vapor by measuring the electrical resistance between two electrodes. The humidity sensing component is a moisture holding substrate with electrodes applied to the surface. When water vapor is absorbed by the substrate, ions are released by the substrate which increases the conductivity between the electrodes.

## **SIMULATION CODE:**

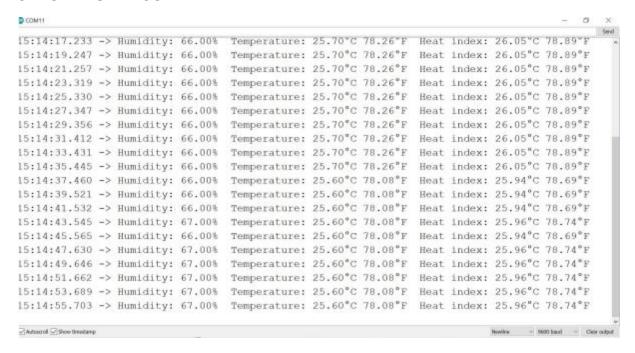
```
#include <dht.h>
dht DHT;

#define DHT11_PIN 2

Void setup() {
    Serial.begin(9600);
}

Void loop() {
    Int chk = DHT.read11(DHT11_pin);
    Serial.print("Temperature = ");
    Serial.println(DHT.temperature);
    Serial.print("Humidity = ");
    Serial.print(DHT.Humidity);
    delay(1000);
}
```

## **SIMULATION RESULT:**



**CONCLUSION:** After performing this experiment we were able to find Temperature and Humidity through ESP8266

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