Assignment No.2(Temperature Sensor)

USING ARDIUNO

INPUT:-

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

#define DHT11_PIN 4

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

void loop() {
    int chk=DHT.read11(DHT11_PIN);
    Serial.print("Temperature: ");
    Serial.println(DHT.temperature);
    Serial.println(DHT.temperature);
    Serial.println(DHT.humidity: ");
    delay(1000);
}
```

OUTPUT:-

(SERIAL MONITOR OUTPUT)

Output:

Temperature: 26.00

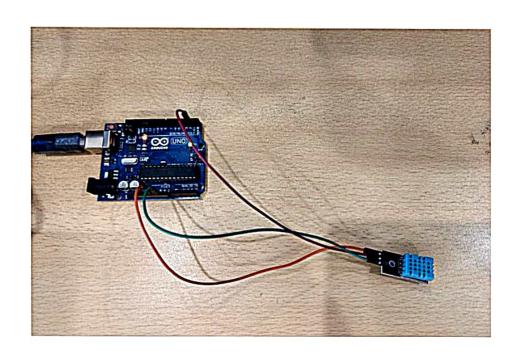
Humidity: 72.00

Temperature: 26.00

Humidity: 73.00

Temperature: 26.00

Humidity: 72.00



USING RASPBERRY PI

```
INPUT:-
DHT11
import Adafruit_DHT
import time
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(17, GPIO.OUT, initial=GPIO.LOW)
DHT_SENSOR= Adafruit_DHT.DHT11
DHT_PIN=4
while True:
 hum,temp=Adafruit_DHT.read(DHT_SENSOR,DHT_PIN)
if hum is not None and temp is not None:
print("Humidity: ",hum)
print("Temperature: ",temp)
GPIO.output(17,GPIO.HIGH)
else:
print("ERROR")
GPIO.output(17,GPIO.LOW)
```

OUTPUT:-

(SERIAL MONITOR OUTPUT)

Humidity: 70.00

Temperature: 23.00

Humidity: 70.00

Temperature: 24.00

Humidity: 70.00

Temperature: 24.00

Humidity: 70.00

Temperature: 24.00

Humidity: 72.00

Temperature: 26.00

Humidity: 72.00

Temperature: 26.00

Humidity: 73.00

Temperature: 26.00

Humidity: 73.00

Temperature: 26.00

Humidity: 73.00

Temperature: 26.00

Humidity: 73.00

