

LAB EXAM CIA – 2

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```
#include <DHTesp.h> // including the libraries
#define dht_apin D3 // choosing the pin
DHTesp dht; // making the variable
void setup() { // starting the setup function
    Serial.begin(9600); // setting the baud rate
    delay(500); // setting a time interval
    Serial.print("Temperature & Humidity sensor"); //displaying message to the user
    Serial.println(); // printing a new line
    delay(1000); // setting a delay
    dht.setup(dht_apin,DHTesp::DHT11); //setting up the function with parameters of the pin
}
void loop() {
    float temp = dht.getTemperature(); // calling the temperature function
    float hum = dht.getHumidity(); // calling the humidity function
    Serial.print("Current Temperature is: "); //displaying message to the user
    Serial.print(temp); // printing the temperature
    Serial.println("C"); //displaying message to the user
    Serial.print("Current humidity is: "); //displaying message to the user
    Serial.print(hum); // printing the humidity
    Serial.println("%"); //displaying message to the user
    Serial.println(); // printing a new line
    delay(3500); // setting a delay to run the loop again
    if(temp>26)
    {
        Serial.print("New Temperature is: "); //displaying message to the user
        Serial.print(temp); // printing the temperature
        Serial.println("C"); //displaying message to the user
    }
}
```

```
}  
}
```

```
Current Temperature is: 26.00C  
Current humidity is: 68.00%
```

```
Current Temperature is: 26.00C  
Current humidity is: 69.00%
```

```
Current Temperature is: 27.00C  
Current humidity is: 68.00%
```

```
New Temperature is: 27.00C  
Current Temperature is: 27.00C  
Current humidity is: 68.00%
```

```
New Temperature is: 27.00C  
Current Temperature is: 27.00C  
Current humidity is: 71.00%
```

```
New Temperature is: 27.00C  
Current Temperature is: 26.00C  
Current humidity is: 72.00%
```

```
Current Temperature is: 27.00C  
Current humidity is: 74.00%
```

```
CIA_2  
  
#include <DHTesp.h> // including the libraries  
#define dht_apin D3 // choosing the pin  
DHTesp dht; // making the variable  
void setup() { // starting the setup function  
    Serial.begin(9600); // setting the baud rate  
    delay(500); // setting a time interval  
    Serial.print("Temperature & Humidity sensor"); //displaying message to the user  
    Serial.println(); // printing a new line  
    delay(1000); // setting a delay  
    dht.setup(dht_apin,DHTesp::DHT11); //setting up the function with parameters of the pin  
}  
void loop() {  
    float temp = dht.getTemperature(); // calling the temperature function  
    float hum = dht.getHumidity(); // calling the humidity function  
    Serial.print("Current Temperature is: "); //displaying message to the user  
    Serial.print(temp); // printing the temperature  
    Serial.println("C"); //displaying message to the user  
    Serial.print("Current humidity is: "); //displaying message to the user  
    Serial.print(hum); // printing the humidity  
    Serial.println("%"); //displaying message to the user  
    Serial.println(); // printing a new line  
    delay(3500); // setting a delay to run the loop again  
    if(temp>26)  
    {  
        Serial.print("New Temperature is: "); //displaying message to the user  
        Serial.print(temp); // printing the temperature  
        Serial.println("C"); //displaying message to the user  
    }  
}
```

Done Saving.

```
Writing at 0x00028000... (91 %)  
Writing at 0x0002c000... (100 %)  
Wrote 268928 bytes (195918 compressed) at 0x00000000 in 17.3 seconds (effective 124.3 kbit/s)...  
Hash of data verified.
```
