

**Assignment -2**  
**PYTHON CODE**

Assignment Date	01 October 2022
Student Name	Mr. P. DHANUSH
Student Roll Number	AC19UIT007
Maximum Marks	2 Marks

**Question-1:**

Buid a python code, assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

**CODE & OUTPUT:**

main.py

Run

Shell

Clear

```
1 import time
2 import random
3 i=0
4 while(i<=2000):
5     i=i+1
6     time.sleep(10) #2 SEC DELAY
7     temp=random.randint(20,40)
8     humid=random.randint(50,100)
9     if temp>30:
10         print("Temperature:",temp,"°C\n Temperature is High\n !!!
            ALERT HIGH TEMPERATURE !!!")
11     else:
12         print("Temperature:",temp,"°C\n Temperature is Normal")
13     if humid>70:
14         print("Humidity:",humid," \nHumidity is high")
15     else:
16         print("Humidity:",humid," \nHumidity is low")
```

Temperature: 37 °C  
Temperature is High  
!!! ALERT HIGH TEMPERATURE !!!  
Humidity: 95  
Humidity is high  
Temperature: 24 °C  
Temperature is Normal  
Humidity: 99  
Humidity is high  
Temperature: 21 °C  
Temperature is Normal  
Humidity: 78  
Humidity is high  
Temperature: 21 °C  
Temperature is Normal  
Humidity: 54  
Humidity is low  
Temperature: 38 °C  
Temperature is High  
!!! ALERT HIGH TEMPERATURE !!!  
Humidity: 83  
Humidity is high  
Temperature: 38 °C

**CODE:**

```
import time
import random
i=0
while(i<=2000):
    i=i+1
    time.sleep(10) #2 SEC DELAY
```

```
temp=random.randint(20,40)
humid=random.randint(50,100)
if temp>30:
    print("Temperature:",temp,"°C\n Temperature is High\n !!! ALERT HIGH TEMPERATURE !!!")
else:
    print("Temperature:",temp,"°C\n Temperature is Normal")
if humid>70:
    print("Humidity:",humid,"%\nHumidity is high")
else:
    print("Humidity:",humid,"%\nHumidity is low")
```