





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

Assignment Date	01 October 2022
Student Name	Mr. N.MANJUNATH
Student Roll Number	AC19UIT054
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	  	Shell	
<pre>1 import time 2 import random 3 i=0 4 while(i&lt;=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&gt;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&gt;70: 14         print("Humidity:",humid,"\\nHumidity is high") 15     else: 16         print("Humidity:",humid,"\\nHumidity is low")</pre>		<pre>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</pre>	

**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")
```