

Assignment -2
Python Programming

Assignment Date	27September 2022
Student Name	CHARAN P
Student Roll Number	110319106007
Maximum Marks	2 Marks

Question-1:

Build 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:

```
import random
from time import sleep

def generate_values():
    temperature = random.randint(10, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature

humidity = temperature = 0

while temperature < 45:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)

print('High Temperature Detected')
```

OUTPUT:

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main.py

Run

Shell

Clear

```
1 import random
2 from time import sleep
3
4 def generate_values():
5     temperature = random.randint(10, 50)
6     humidity = random.randint(10, temperature)
7     return humidity, temperature
8
9 humidity = temperature = 0
10
11 while temperature < 45:
12     humidity, temperature = generate_values()
13     print('Humidity:', humidity, 'Temperature:', temperature)
14     sleep(0.50)
15
16 print('High Temperature Detected')
17
18
19
```

```
Humidity: 14 Temperature: 21
Humidity: 33 Temperature: 37
Humidity: 33 Temperature: 47
High Temperature Detected
> |
```

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