

Assignment -2

Assignment Date	19 September 2022
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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.

Solution:

```
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')
```

```
1 import random
2 from time import sleep
3
4 def generate_value():
5     temperature = random.randint(0, 10)
6     humidity = random.randint(0, 100)
7     return humidity, temperature
8
9 humidity = temperature = 0
10
11 while temperature < 40:
12     humidity, temperature = generate_value()
13     print(humidity, 'humidity', 'temperature', temperature)
14     sleep(0.5)
15
16 print('High Temperature Detected')
```

humidity: 10 temperature: 1
humidity: 10 temperature: 21
humidity: 17 temperature: 30
humidity: 10 temperature: 40
High Temperature Detected

... Program Finished with exit code: 0
Press RETURN to exit console