

ASSESSMENT-2

ASSESSMENT DATE	26 SEPTEMBER 2022
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MARKS	2 Marks

PROBLEM:

Build a python code, Assume you 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 time from random
import rand
int file=open("data.txt","a")
n=5
for i in range(n):
    humidity=randint(0,100)+1
    temperature=randint(-100,100)+1
    if humidity>50:
        print("\n \n Humidity High")
        print(humidity)

    file.write("\nHumidity")
    file.write(str(humidity))
    if temperature>50:
        print("Temperature High")
        print(temperature)

    file.write("\nTemperature")
    file.write(str(temperature))
    time.sleep(1)
file.close()
```

SIMULATION SCREENSHOT:

The screenshot shows a Windows desktop with three open windows. The leftmost window is a text editor titled 'temp 1 lead.py' containing a Python script. The middle window is a 'Python 3.7.0 Shell' showing the execution of the script. The rightmost window is a Notepad titled 'data.txt' showing the output data.

```
temp 1 lead.py - C:\Users\BOOPATHI\AppData\Local\Progr...
File Edit Format Run Options Window Help

import time
from random import randint
file=open("data.txt","a")
n=5
for i in range(n):
    humidity=randint(0,100)+1
    temperature=randint(-100,100)+1
    if humidity>50:
        print("\n \n Humidity High")
        print(humidity)

        file.write("\nHumidity")
        file.write(str(humidity))

    if temperature>50:
        print("Temperature High")
        print(temperature)

        file.write("\nTemperature")
        file.write(str(temperature))
    time.sleep(1)
file.close()
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:
51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more
information.
>>>
RESTART: C:\Users\BOOPATHI\AppData\Local\Programs\Py
thon\Python37\temp 1 lead.py

Humidity High
66
Temperature High
82

Humidity High
61
>>> |
```

```
data.txt - Notepad
File Edit Format View Help

Temperature87
Humidity62
Temperature73
Humidity82
Temperature98
Humidity64
Temperature81
Humidity84
Humidity74
Humidity66
Temperature82
Humidity61
```