

## 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 applications: a Python script editor, a Python 3.7.0 Shell, and a Notepad file named 'data.txt'.

**temp 1 lead.py** (Python Script Editor):

```
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**:

```
Python 3.7.0 (tags/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**:

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

The taskbar at the bottom shows the Windows Start button, task view, search, and several pinned applications including File Explorer, Edge, and various productivity tools. The system tray on the right indicates the date and time as 11:06 PM.