

ASSIGNMENT – 2

Python Programming

Assignment Date	26 September 2022
Student Name	Mr. S. Krishnakumar
Student Roll Number	610819106026
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:

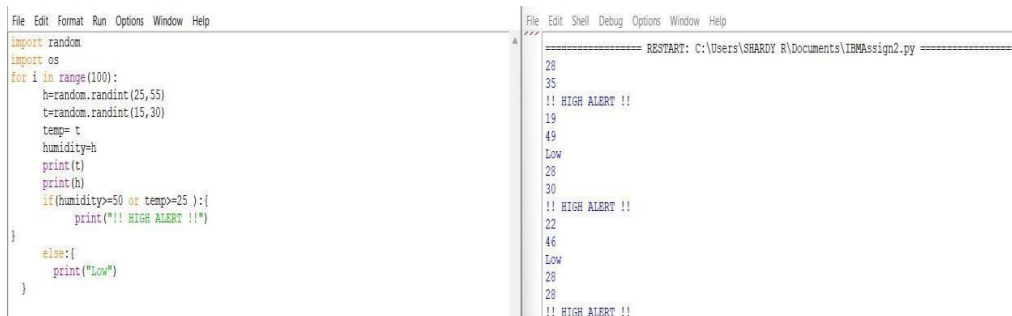
```
import random
import os

for i in range(100):

    h=random.randint(25,55)
    t=random.randint(15,30)temp= t
    humidity=h
    print(t) print(h)

    if(humidity>=50 or temp>=25 ):
        {
            print("!! HIGH ALERT !!")
        }

    else:
        {
            print("Low")
        }
}
```



The screenshot shows a Python IDE with two windows. The left window displays the code from the solution, and the right window shows the output of the program. The code is a loop that generates random temperature and humidity values and prints them, along with a high alert message if the humidity is greater than or equal to 50 or the temperature is greater than or equal to 25. The output shows the results of the first 10 iterations of the loop.

```
File Edit Format Run Options Window Help
import random
import os
for i in range(100):
    h=random.randint(25,55)
    t=random.randint(15,30)
    temp= t
    humidity=h
    print(t)
    print(h)
    if(humidity>=50 or temp>=25 ):
        print("!! HIGH ALERT !!")
    else:
        print("Low")
}
```

```
File Edit Shell Debug Options Window Help
===== RESTART: C:\Users\SHARDY R\Documents\IITMAssign2.py =====
28
35
!! HIGH ALERT !!
19
49
Low
28
30
!! HIGH ALERT !!
22
46
Low
28
28
!! HIGH ALERT !!
```