

Assignment -2

Python Programming

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.

```
import random
import os

for i in range(100):
    h=random.randint(25,55)
    t=random.randint(15,30)
    temp= t
    humidity=hs
    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 previous block. The right window shows the output of the program, which consists of a list of temperature values (t) and humidity values (h) printed for each iteration. The output shows that the program correctly identifies high alerts when humidity is greater than or equal to 50 or temperature is greater than or equal to 25.

```
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\SEEROF A\Documents\IRMAssign2.py -----
25
35
!! HIGH ALERT !!
19
49
Low
26
30
!! HIGH ALERT !!
22
46
Low
20
28
!! HIGH ALERT !!
```