

ASWIN R

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ASSINGNMENT QUESTION 2:

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.

PROGRAM CODE :

```
import random
import os
for i in range (30,90):

h=random.randint (75, 85), t=random.randint (35,40)|

temp=t

humidity=h

print (t) print (h)

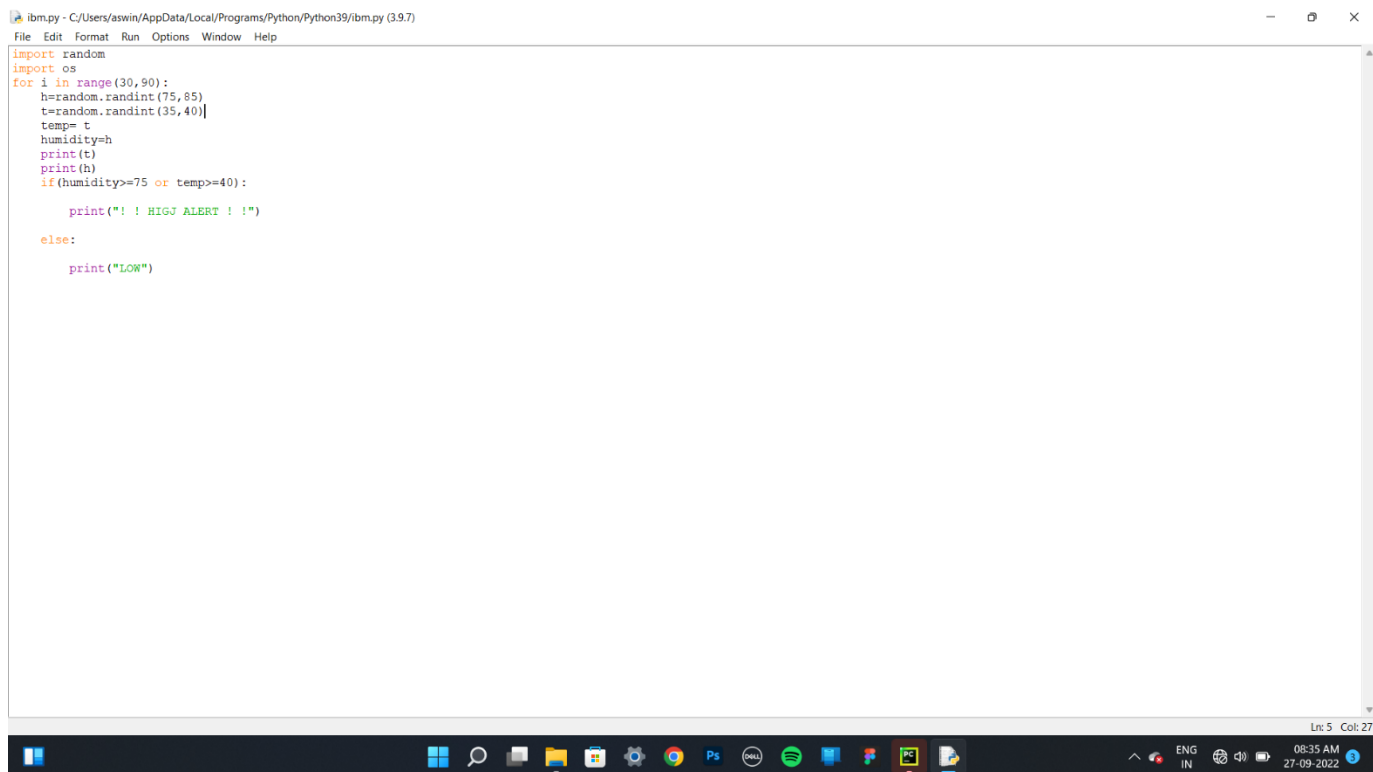
if (humidity>=75 or temp>=40):

print(": HIGJ ALERT!")

else:

print("Low")
```

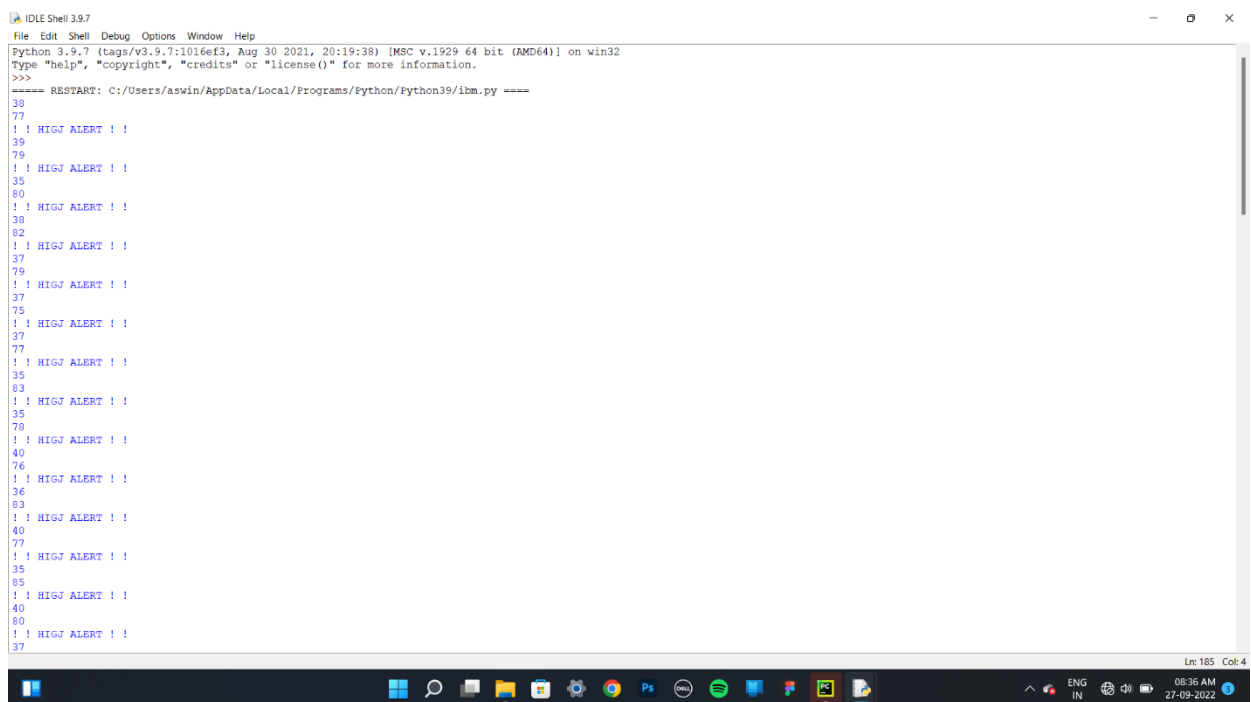
SCREENSHOT 1:



A screenshot of a text editor window titled 'ibm.py - C:/Users/aswin/AppData/Local/Programs/Python/Python39/ibm.py (3.9.7)'. The editor contains a Python script that imports 'random' and 'os', then enters a loop from 30 to 90. Inside the loop, it generates random values for 'h' (humidity) and 't' (temperature), prints them, and checks if either is greater than or equal to 75 or 40 respectively. If so, it prints '!! HIGJ ALERT !!'; otherwise, it prints 'LOW'. The taskbar at the bottom shows various application icons and the system clock indicating 08:35 AM on 27-09-2022.

```
ibm.py - C:/Users/aswin/AppData/Local/Programs/Python/Python39/ibm.py (3.9.7)
File Edit Format Run Options Window Help
import random
import os
for i in range(30,90):
    h=random.randint(75,85)
    t=random.randint(35,40)
    temp=t
    humidity=h
    print(t)
    print(h)
    if(humidity>=75 or temp>=40):
        print("!! HIGJ ALERT !!")
    else:
        print("LOW")
```

SCREENSHOT 2: OUTPUT:



A screenshot of an IDLE Shell window titled 'IDLE Shell 3.9.7'. It shows the execution output of the script from Screenshot 1. The output consists of multiple lines of '!! HIGJ ALERT !!' and 'LOW' messages, each preceded by a line number. The taskbar at the bottom shows the system clock indicating 08:36 AM on 27-09-2022.

```
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/aswin/AppData/Local/Programs/Python/Python39/ibm.py =====
38
77
!! HIGJ ALERT !!
39
79
!! HIGJ ALERT !!
35
80
!! HIGJ ALERT !!
38
82
!! HIGJ ALERT !!
37
79
!! HIGJ ALERT !!
37
75
!! HIGJ ALERT !!
37
77
!! HIGJ ALERT !!
35
83
!! HIGJ ALERT !!
35
78
!! HIGJ ALERT !!
40
76
!! HIGJ ALERT !!
36
83
!! HIGJ ALERT !!
40
77
!! HIGJ ALERT !!
35
85
!! HIGJ ALERT !!
40
80
!! HIGJ ALERT !!
37
```