ASSIGNMENT – 2

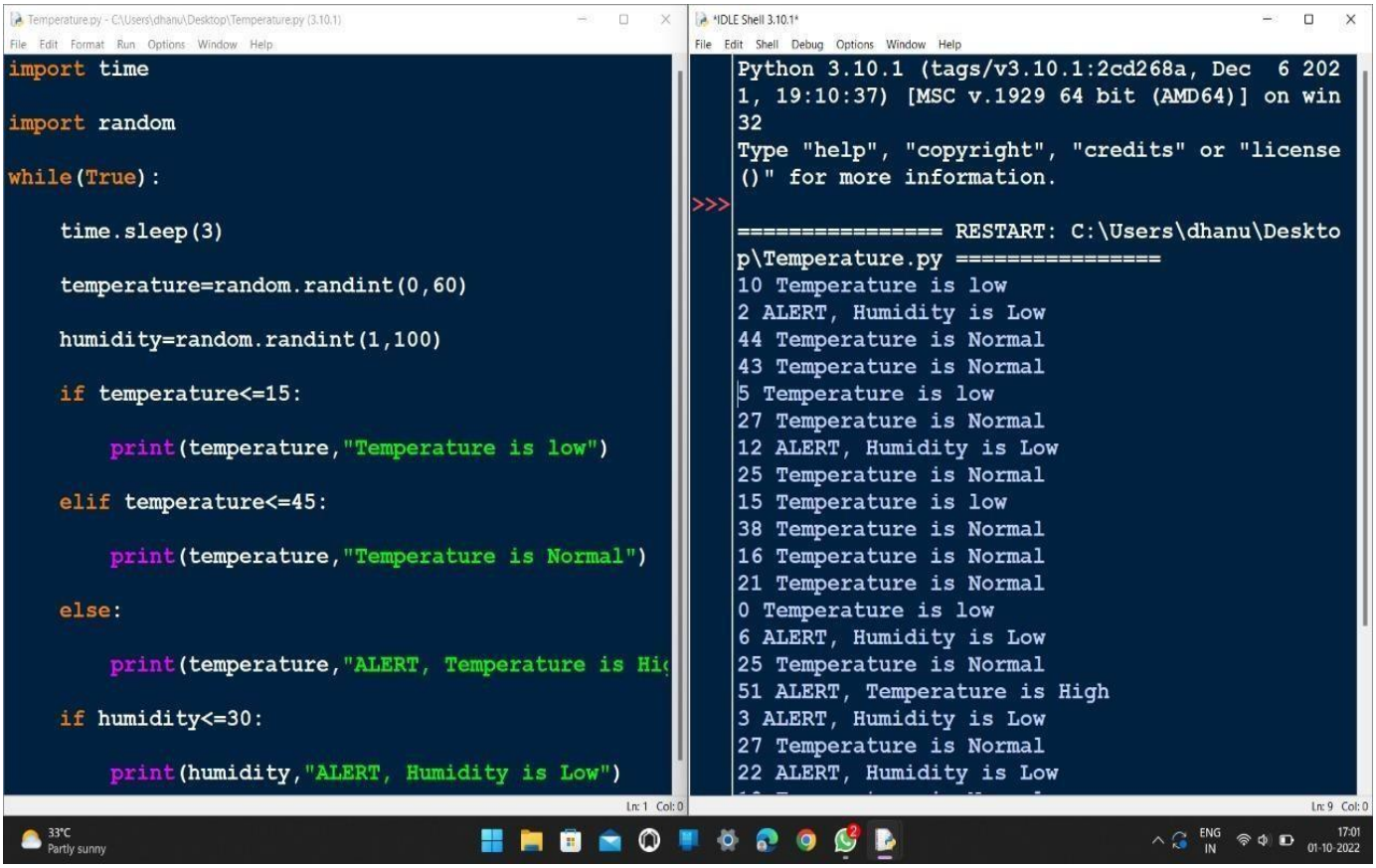
Question : Build a python code,Assume you get temperature and humidity values(generated withrandom function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

CODE

```
import time
import random
while(True):
    time.sleep(3)
    temperature=random.randint(0,60)
    humidity=random.randint(1,100)
    if temperature<=15:
        print(temperature,"Temperature is low")
    elif temperature<=45:
        print(temperature,"Temperature is Normal")
    else:
        print(temperature,"ALERT, Temperature is High")
    if humidity<=30:
        print(humidity,"ALERT, Humidity is Low")
    elif humidity<=70:
        print(humidity,"Humidity is Normal")
    else:
        print(humidity,"Humidity is High")
```

OUTPUT


Temperature.py - C:\Users\dhanu\Desktop\Temperature.py (3.10.1)
File Edit Format Run Options Window Help
import time
import random
while(True):
time.sleep(3)
temperature=random.randint(0,60)
humidity=random.randint(1,100)
if temperature<=15:
print(temperature,"Temperature is low")
elif temperature<=45:
print(temperature,"Temperature is Normal")
else:
print(temperature,"ALERT, Temperature is Hi
if humidity<=30:
print(humidity,"ALERT, Humidity is Low")
Ln: 1 Col: 0
IDLE Shell 3.10.1
File Edit Shell Debug Options Window Help
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 202
1, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win
32
Type "help", "copyright", "credits" or "license
()" for more information.
>>>
========== RESTART: C:\Users\dhanu\Deskto
p\Temperature.py ==========
10 Temperature is low
2 ALERT, Humidity is Low
44 Temperature is Normal
43 Temperature is Normal
5 Temperature is low
27 Temperature is Normal
12 ALERT, Humidity is Low
25 Temperature is Normal
15 Temperature is low
38 Temperature is Normal
16 Temperature is Normal
21 Temperature is Normal
0 Temperature is low
6 ALERT, Humidity is Low
25 Temperature is Normal
51 ALERT, Temperature is High
3 ALERT, Humidity is Low
27 Temperature is Normal
22 ALERT, Humidity is Low
Ln: 9 Col: 0
33°C
Partly sunny
ENG
IN
17:01
01-10-2022