ASSIGNMENT 2

PYTHON PROGRAMMING

Team ID	PNT2022TMID50828
Assignment Date	22 September 2022
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Question1:

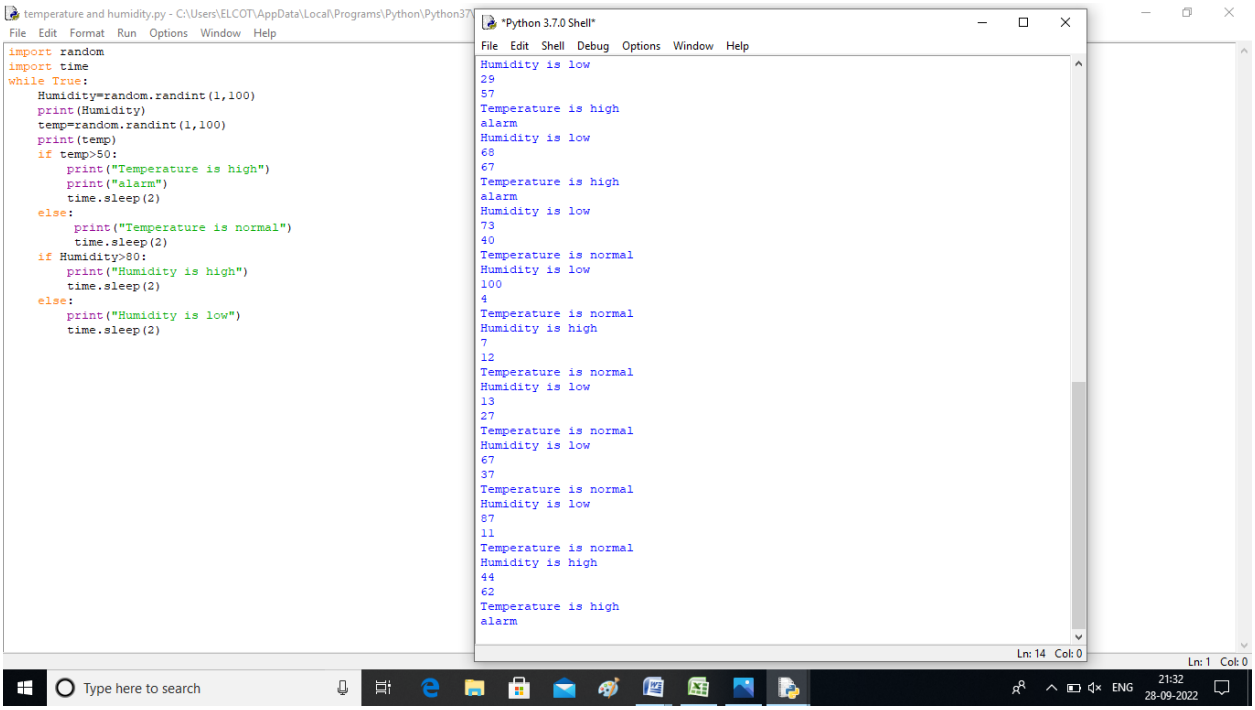
Build a python code, Assume you get Temperature and Humidity value(generated with random function to a variable) and write a condition to continuously detect alarm in case of High Temperature.

Program Code:

```
import random

import time

while True:

    Humidity=random.randint(1,100)

    print(Humidity)

    temp=random.randint(1,100)

    print(temp)
```

```
if temp>50:
    print("Temperature is high")
    print("alarm")
    time.sleep(2)
else:
     print("Temperature is normal")
     time.sleep(2)
if Humidity>80:
    print("Humidity is high")
    time.sleep(2)
else:
    print("Humidity is low")
    time.sleep(2)
```

Output:


temperature and humidity.py - C:\Users\ELCOT\AppData\Local\Programs\Python\Python37\
File Edit Format Run Options Window Help
import random
import time
while True:
Humidity=random.randint(1,100)
print(Humidity)
temp=random.randint(1,100)
print(temp)
if temp>50:
print("Temperature is high")
print("alarm")
time.sleep(2)
else:
print("Temperature is normal")
time.sleep(2)
if Humidity>80:
print("Humidity is high")
time.sleep(2)
else:
print("Humidity is low")
time.sleep(2)
Ln: 1 Col: 0
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Humidity is low
29
57
Temperature is high
alarm
Humidity is low
68
67
Temperature is high
alarm
Humidity is low
73
40
Temperature is normal
Humidity is low
100
4
Temperature is normal
Humidity is high
7
12
Temperature is normal
Humidity is low
13
27
Temperature is normal
Humidity is low
67
37
Temperature is normal
Humidity is low
87
11
Temperature is normal
Humidity is high
44
62
Temperature is high
alarm
Ln: 14 Col: 0
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ENG
21:32
28-09-2022