Assignment -2

Assignment Date	20/09/2022
Student Name	Palani M
Student Roll Number	61071912130
Maximum Marks	2 Marks

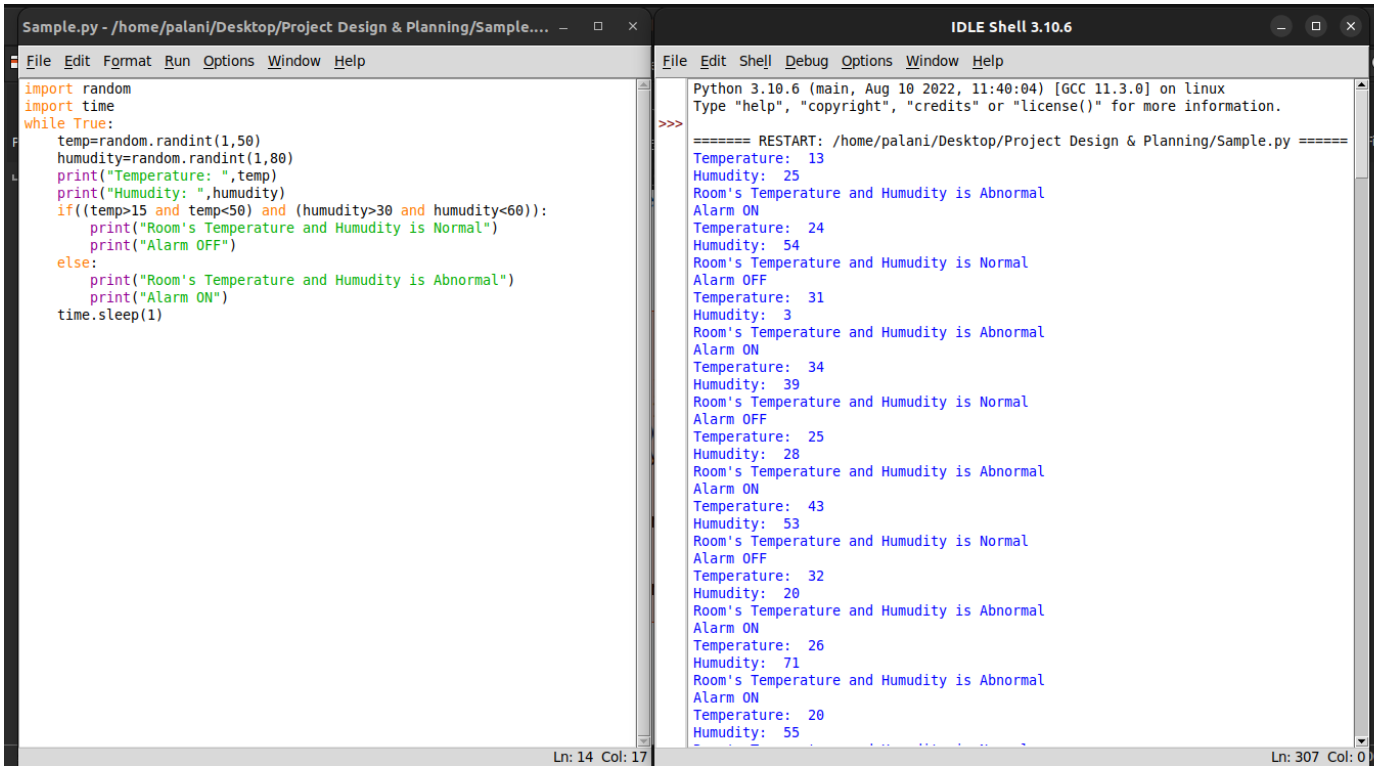
Question:

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:
Python Code:

```
import random
import time
while True:
    temp=random.randint(1,50)
    humudity=random.randint(1,80)
    print("Temperature: ",temp)
    print("Humudity: ",humudity)
    if((temp>15 and temp<50) and (humudity>30 and
humudity<60)):
        print("Room's Temperature and Humudity is Normal")
        print("Alarm OFF")
    else:
        print("Room's Temperature and Humudity is Abnormal")
        print("Alarm ON")
    time.sleep(1)
```

Output:


Sample.py - /home/palani/Desktop/Project Design & Planning/Sample....
File Edit Format Run Options Window Help
import random
import time
while True:
temp=random.randint(1,50)
humudity=random.randint(1,80)
print("Temperature: ",temp)
print("Humudity: ",humudity)
if((temp>15 and temp<50) and (humudity>30 and humudity<60)):
print("Room's Temperature and Humudity is Normal")
print("Alarm OFF")
else:
print("Room's Temperature and Humudity is Abnormal")
print("Alarm ON")
time.sleep(1)
Ln: 14 Col: 17
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (main, Aug 10 2022, 11:40:04) [GCC 11.3.0] on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: /home/palani/Desktop/Project Design & Planning/Sample.py ======
Temperature: 13
Humudity: 25
Room's Temperature and Humudity is Abnormal
Alarm ON
Temperature: 24
Humudity: 54
Room's Temperature and Humudity is Normal
Alarm OFF
Temperature: 31
Humudity: 3
Room's Temperature and Humudity is Abnormal
Alarm ON
Temperature: 34
Humudity: 39
Room's Temperature and Humudity is Normal
Alarm OFF
Temperature: 25
Humudity: 28
Room's Temperature and Humudity is Abnormal
Alarm ON
Temperature: 43
Humudity: 53
Room's Temperature and Humudity is Normal
Alarm OFF
Temperature: 32
Humudity: 20
Room's Temperature and Humudity is Abnormal
Alarm ON
Temperature: 26
Humudity: 71
Room's Temperature and Humudity is Abnormal
Alarm ON
Temperature: 20
Humudity: 55
Ln: 307 Col: 0