

Assignment-2

Python code:

```
#Assignment2
#Problem statement: write a python code to detect high temperature and generate an alarm

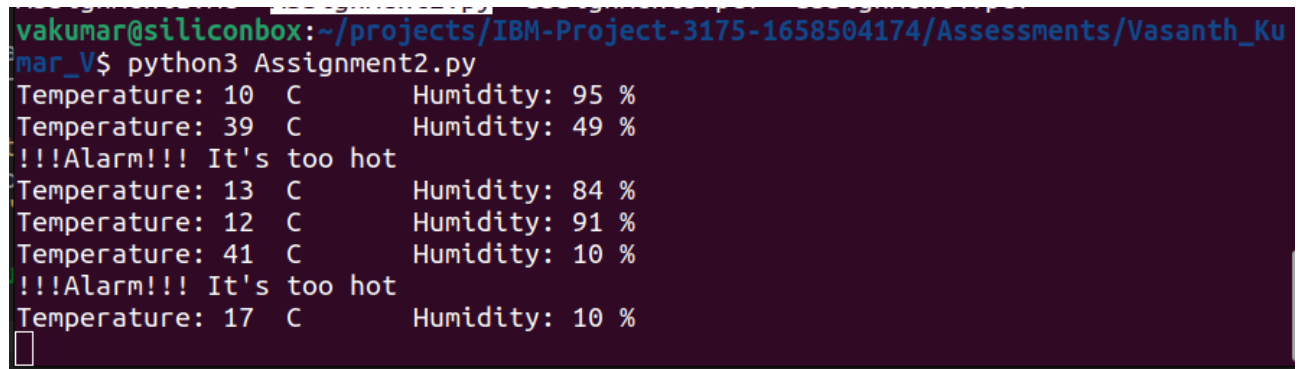
import random
import time

temperature = range(10,45) #temperature in degree celsius
humidity = range(0,100)    #humidity in percentage

while True:
    time.sleep(5) #create a delay of 5s to imitate temperature update every 5s
    current_temp=random.choice(temperature) #pick a random temperature
    current_hum = random.choice(humidity)    #pick a random humidity

    print("Temperature:",current_temp," C\t","Humidity:",current_hum,"%") #print current
temperature and humidity
    if(current_temp > 35):          #if temperature raises above 35 C, raise an alarm
        print("!!!Alarm!!! It's too hot")
    else:
        continue
```

Output:



```
vakumar@siliconbox:~/projects/IBM-Project-3175-1658504174/Assessments/Vasanth_Ku
mar_V$ python3 Assignment2.py
Temperature: 10 C      Humidity: 95 %
Temperature: 39 C      Humidity: 49 %
!!!Alarm!!! It's too hot
Temperature: 13 C      Humidity: 84 %
Temperature: 12 C      Humidity: 91 %
Temperature: 41 C      Humidity: 10 %
!!!Alarm!!! It's too hot
Temperature: 17 C      Humidity: 10 %
█
```