

Assignment -2
Python Programming

Assignment Date	21 September 2022
Student Name	Karthik
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Maximum Marks	2 Marks

Question-1:

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 :

```
import random
from time import sleep

temp = 0.0
hum = 0.0

while(True):
    #random values are generated
    temp = random.random()*100
    hum = random.random()*100

    if(temp > 39 and hum < 31 ):

        print("Temperature is high")
        print("Temperature : {:.2f} ".format(temp))
        print("Humidity : {:.2f} ".format(hum))

    elif(temp < 20 and hum > 50):

        print("Temperature is low")
        print("Temperature : {:.2f} ".format(temp))
        print("Humidity : {:.2f} ".format(hum))

    else:
        print("Reading.....")
        sleep(1)
```

Output :

```
Reading.....
Reading.....
Temperature is low
Temperature : 3.73
Humidity : 88.16
Temperature is high
Temperature : 54.82
Humidity : 23.56
Reading.....
Reading.....
Temperature is high
Temperature : 96.06
Humidity : 17.95
```