

**Assignment -2**  
Python Programming

Assignment Date	21 September 2022
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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
```