

Assignment -2
Python Programming

Assignment Date	19 September 2022
Student Name	Ms. Ananthi
Student Roll Number	422119106001
Maximum Marks	2 Marks

Question:

Build a python code ,Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case high temperature .

Solution:

```
import random
temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp)
print(humty)

if ((temp<30)&(humty<40)):
    print("Temperature is normal :")
    print("Humidity is normal:")
    print("Alarm off")

elif((temp<30)&(humty>40)):
    print("Temperature is low")
    print("Humidity is high")
    print("Alarm off")

elif((temp>30) & (humty<40)):
    print("Temperature is high:")
    print("Humidity is normal")
    print("Alarm on")

elif((temp>40) & (humty>60)):
    print("Temperature is very high")
    print("Humidity is very high")
```

```
print("Alarm on")
```

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main.py

```
1 import random
2 temp=random.randint(1,100)
3 humty=random.randint(1,100)
4 print(temp)
5 print(humty)
6
7 if ((temp<30)&(humty<40)):
8     print("Temperature is normal :")
9     print("Humidity is normal:")
10    print("Alarm off")
11
12 elif((temp<30)&(humty>40)):
13     print("Temperature is low")
14     print("Humidity is high")
15     print("Alarm off")
16
17 elif((temp>30) & (humty<40)):
18     print("Temperature is high:")
19     print("Humidity is normal")
20     print("Alarm on")
21
22 elif((temp>40) & (humty>60)):
23     print("Temperature is very high")
24     print("Humidity is very high")
25     print("Alarm on")
```

Run

Shell

```
100
26
Temperature is high:
Humidity is normal
Alarm on
> |
```

Clear