

Assignment -2
Python Programming

Assignment Date	19 September 2022
Student Name	Ms.Sriharini
Student Roll Number	422119106009
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)
humidity=random.randint(1,100)
print(temp)
print(humidity)
```

```
if ((temp<20)&(humidity<30)):
    print("Temperature is normal:")
    print("Humidity is normal:")
    print("Alarm off")
```

```
elif((temp<10)&(humidity>40)):
    print("Temperature is low")
    print("Humidity is high")
    print("Alarm off")
```

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

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

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main.py

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```
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10- if ((temp<20)&(humidity<30)):
11     print("Temperature is normal:")
12     print("Humidity is normal:")
13     print("Alarm off")
14
15- elif((temp<10)&(humidity>40)):
16     print("Temperature is low")
17     print("Humidity is high")
18     print("Alarm off")
19
20- elif((temp>30) & (humidity<30)):
21     print("Temperature is high:")
22     print("Humidity is normal")
23     print("Alarm on")
24
25- elif((temp>40) & (humidity>60)):
26     print("Temperature is very high")
27     print("Humidity is very high")
28     print("Alarm on")
29
```

```
64
100
Temperature is very high
Humidity is very high
Alarm on
>
```

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