

Assignment -2
Python Programming

Assignment Date	27 September 2022
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Maximum Marks	2 Marks

Question-1:

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 of high temperature.

Solution

```
import random
from time import*
gate=True
while(gate):
    t=random.randint(0,50)
    h=random.randint(10,50)
    if t>45 and h<40:

print("Temperature=",t,"Humidity=",h)
    print("Alarm ON")
    gate=False
else:

print("Temperature=",t,"Humidity=",h)
sleep(1);
```

Output

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 2
4)] on win32
Type "copyright", "credits" or "licens
>>>
  RESTART: C:/Users/farha/AppData/Local
PY
Temperature= 22 Humidity= 22
Temperature= 49 Humidity= 26
Alarm ON
>>>
  RESTART: C:/Users/farha/AppData/Local
PY
Temperature= 49 Humidity= 17
Alarm ON
>>>
  RESTART: C:/Users/farha/AppData/Local
PY
Temperature= 12 Humidity= 29
Temperature= 14 Humidity= 20
Temperature= 15 Humidity= 15
Temperature= 31 Humidity= 45
Temperature= 49 Humidity= 30
Alarm ON
>>>
```