

## ASSIGNMENT 2

### PYTHON CODE

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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.

```
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:

```
Temperature = 27 Humidity 38
Temperature = 36 Humidity 39
Temperature = 23 Humidity 40
Temperature = 24 Humidity 25
Temperature = 10 Humidity 40
Temperature = 17 Humidity 30
Temperature = 17 Humidity 35
```

**ALARM ON**

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IOLE Shell 3.10.7

File

Edit

Shell

Debug

Options

Window

Help

Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)]  
on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>> 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:  
... Temperature = 27 Humidity 38  
... Temperature = 36 Humidity 39  
... Temperature = 23 Humidity 40  
... Temperature = 24 Humidity 25  
... Temperature = 10 Humidity 40  
... Temperature = 17 Humidity 30  
... Temperature = 17 Humidity 35  
... Temperature = 48 Humidity = 16  
... ALARM ON  
...  
...</div></div><div><div>IOLE Shell 3.10.7</div><div><div>File</div><div>Edit</div><div>Shell</div><div>Debug</div><div>Options</div><div>Window</div><div>Help</div></div><div>Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)]  
on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>> = RESTART: C:/Users/SUBASH/AppData/Local/Programs/Python/Python310/python code for temp.  
PV  
Temperature = 2 Humidity 41  
Temperature = 6 Humidity 40  
Temperature = 47 Humidity = 21  
ALARM ON  
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