

Assignment -2

Python Programming

Assignment Date	22 September 2022
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Maximum Marks	2 Marks

Question:

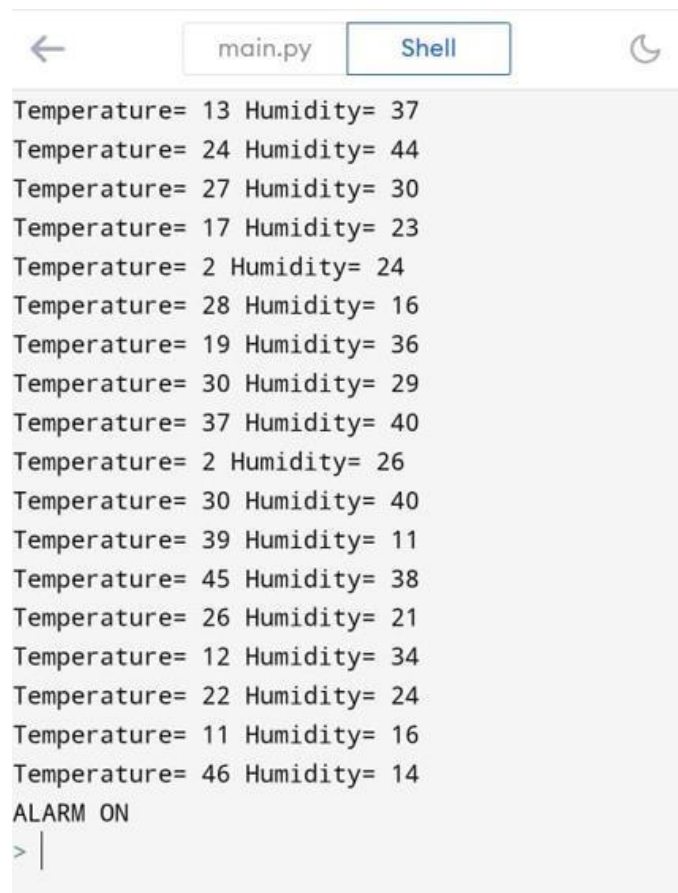
1. Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

Code:

```
import random
from time import *
value=True
while(value):
    t=random.randint(0,50)
    h=random.randint(10,50)
    if t>45 and h<40:
        print("Temperature=",t,"Humidity=",h)
        print("ALARM ON")
        value=False
    else:
        print("Temperature=",t,"Humidity=",h)
    sleep(1)
```

Output Screenshot:



```
← main.py Shell ↻  
Temperature= 13 Humidity= 37  
Temperature= 24 Humidity= 44  
Temperature= 27 Humidity= 30  
Temperature= 17 Humidity= 23  
Temperature= 2 Humidity= 24  
Temperature= 28 Humidity= 16  
Temperature= 19 Humidity= 36  
Temperature= 30 Humidity= 29  
Temperature= 37 Humidity= 40  
Temperature= 2 Humidity= 26  
Temperature= 30 Humidity= 40  
Temperature= 39 Humidity= 11  
Temperature= 45 Humidity= 38  
Temperature= 26 Humidity= 21  
Temperature= 12 Humidity= 34  
Temperature= 22 Humidity= 24  
Temperature= 11 Humidity= 16  
Temperature= 46 Humidity= 14  
ALARM ON  
> |
```