

Assignment -2
Python Programming

Assignment Date	20 September 2022
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Maximum Marks	2 Marks

Question:

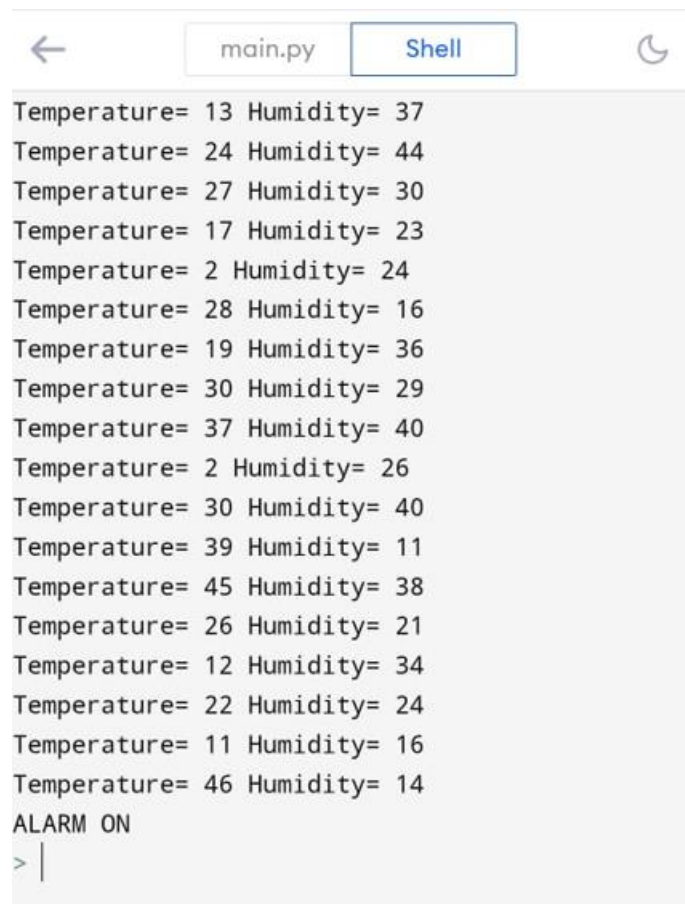
1. Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

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:



The screenshot shows a terminal window with a title bar containing a back arrow, two tabs labeled 'main.py' and 'Shell' (the active tab), and a refresh icon. The terminal output consists of 17 lines of sensor data, each line containing 'Temperature=' followed by a value and 'Humidity=' followed by a value. The data is as follows:

Temperature	Humidity
13	37
24	44
27	30
17	23
2	24
28	16
19	36
30	29
37	40
2	26
30	40
39	11
45	38
26	21
12	34
22	24
11	16
46	14

After the last line of data, the text 'ALARM ON' is printed. The prompt '> |' is shown at the bottom of the terminal.