

Assignment -2
Python programming

Assignment Date	26 September 2022
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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 of high temperature.

Software Used:

❖ Online gdb

Code:



```
import random
import time


while True:
    temperature = random.randrange(1, 100, 1)
    humidity = random.randrange(1, 100, 1)
    if temperature > 60:
        print("High temperature Detected ==> " + str(temperature) + u"\N{DEGREE SIGN}C = 'ALARM ON'")
    else:
        print("Normal temperature Detected ==> " + str(temperature) + u"\N{DEGREE SIGN}C = 'ALARM OFF'")
    break
    time.sleep(2.0)
```


Code and Output:

```
main.py +
1
2 import random
3 import time
4
5 while True:
6     temperature = random.randrange(1, 100, 1) #temperature generates randomly
7     humidity = random.randrange(1, 100, 1) # humidity generates randomly
8     if temperature > 60:
9         print("High temperature Detected ==> " + str(temperature) + u"\N{DEGREE SIGN}C = 'ALARM ON'")
10    else:
11        print("Normal temperature Detected ==> " + str(temperature) + u"\N{DEGREE SIGN}C = 'ALARM OFF'")
12        break
13        time.sleep(2.0) # for time delay of 2 sec for every loop
14
15
16
```

Ln: 15, Col: 1

 Run  Share Command Line Arguments

 High temperature Detected ==> 68°C = 'ALARM ON'

 Normal temperature Detected ==> 39°C = 'ALARM OFF'