

Assignment - 2

Python programming

Assignment Date	28 September 2022
Student Name	Mr. Hari
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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 the alarm in case of high temperature.

Solution:

```
from random import randint;      # importing random function to get value
from time import sleep;          # to make alarm beep on interval of time
second = 2;
temperature = randint(-23,134);
print("Temperature in Fahrenheit",temperature);
humidity = randint(0,100);
print("Humidity in percentage",humidity);
while(temperature >68);          # Based on normal room temperature
sleep(second);
print("temperature is high\n");  # use keyboard interrupt to stop the alarm
#-----#
#-----#
```

Screenshot for normal reading on temperature:

```
main.py [ ] [ ] Run Shell
1 from random import randint; # random function to get value
2 from time import sleep; # to make the alarm beeps in interval of time
3 second = 2;
4 temperature = randint(-23,134);
5 print("Temperature in Fahrenheit",temperature);
6 humidity = randint(0,100);
7 print("Humidity in percentage", humidity);
8 while(temperature >68): #Based on normal room temperature
9     sleep(second);
10    print("Temperature is high\!a ") # use keyboard interrupt as stop button
    for alarm
11
12
```

Temperature in Fahrenheit 41
Humidity in percentage 76
>

Screenshot for high reading on temperature:

[illegible]