

ASSIGNMENT -2
PYTHON PROGRAMING

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) #temperature generates randomly
    humidity = random.randrange(1, 100, 1) # humidity generates randomly
    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) # for time delay of 2 sec for every loop
```

CODE AND OUTPUT:

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

input

```
High temperature Detected ==> 65°C = 'ALARM ON'
Normal temperature Detected ==> 57°C = 'ALARM OFF'

...Program finished with exit code 0
Press ENTER to exit console.
```