

Assignment 2

Assignment date	29th September 2022
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Maximum marks	2 marks

Question:

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:

```
import random

import time

while(1!=0):

    temperature = random.random()

    humidity = random.random()

    print("Temperature: ", "%.3f" % temperature)

    print("Humidity: ", "%.3f" % humidity)

    time.sleep(2)

    if (temperature > 0.5):

        print("high temperature")

    if ( humidity >0.5):

        print("high humidity")

    print(" ")
```

Output:

Programiz

Python Online Compiler

Interactive Python Course

main.py

Run

Clear

```
1 import random
2 import time
3 while(1!=0):
4     temperature = random.random()
5     humidity = random.random()
6     print("Temperature: ", "%.3f" % temperature)
7     print("Humidity: ", "%.3f" % humidity)
8     time.sleep(2)
9     if (temperature > 0.5):
10         print("high temperature")
11     if ( humidity >0.5):
12         print("high humidity")
13     print(" ")
```

Shell

Temperature: 0.997
Humidity: 0.585
high temperature
high humidity

Temperature: 0.035
Humidity: 0.616
high humidity

Temperature: 0.217
Humidity: 0.791
high humidity

Temperature: 0.648
Humidity: 0.542