

Assignment -2
Python Programming

Assignment Date	28 September 2022
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Maximum Marks	2 Marks

Question-1:

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.

Program

```
import random
while(True):
    temp=random.randint(10,99)
    humid=random.randint(10,99)
    print("current temperature:",temp)
    print("current humidity:",humid,"%")
    temp_ref=37
    humid_ref=35
    if temp>temp_ref and humid<humid_ref:
        print("Sound alarm")
    else:
        print("Sound off")
    break
```



main.py

Shell



```
1 import random
2 while(True):
3     temp=random.randint(10,99)
4     humid=random.randint(10,99)
5     print("current temperature:",temp)
6     print("current humidity:",humid,"%")
7     temp_ref=37
8     humid_ref=35
9     if temp>temp_ref and humid<humid_ref:
10         print("Sound alarm")
11     else:
12         print("Sound off")
13 break
```

Run

Enter the threshold : 21

Temperature : 36

Humidity : 50

Temperature is higher

Temperature : 94

Humidity : 90

Temperature is higher

Temperature : 42

Humidity : 35

Temperature is higher

Temperature : 78

Humidity : 80

Temperature is higher

Temperature : 13

Humidity : 100

Temperature : 15

Humidity : 33

Temperature : 69

Humidity : 82

Temperature is higher

Temperature : 21

Humidity : 11

Temperature : 93

Humidity : 3

Temperature is higher