

ASSIGNMENT 2

Python Programming

Assignment Date	2 October 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.

Python code:

```
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
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
14
```

OUTPUT:

```
current temperature: 12
current humidity: 41 %
Sound off

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

```
current temperature: 89
current humidity: 14 %
Sound Alarm

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