

Assignment -2
Python programming

Assignment Date	22 September 2022
Student Name	Akshaya. E
Student Roll Number	211419106021
Maximum Marks	2 Marks

Question:

1. Build a python code, assume you get temperature and humidity values (generated with random variables) and write a condition to continuously detect alarm in case of high temperature.

Solution:

Code:

```
import random
from time import *
value=True
while(value):
    t=random.randint(0,50)
    h=random.randint(10,50)
    if t>45 and h<40:
        print("Temperature=",t,"Humidity=",h)
        print("ALARM ON")
        value=False
    else:
        print("Temperature=",t,"Humidity=",h)
    sleep(1)
```

Output:

Temperature= 18 Humidity= 17

Temperature= 1 Humidity= 43

Temperature= 37 Humidity= 12

Temperature= 32 Humidity= 10

Temperature= 8 Humidity= 20

Temperature= 37 Humidity= 50

Temperature= 27 Humidity= 26

Temperature= 47 Humidity= 40

Temperature= 43 Humidity= 16

Temperature= 24 Humidity= 24

Temperature= 47 Humidity= 36

ALARM ON

