

Assignment -2

SMART WASTE MANAGEMENT SYSTEM

Assignment Date	22 September 2022
Student Name	Mr. NAVEEN KUMAR N
Student Roll Number	910619106034
Maximum Marks	2 Marks

Question-1:

Build a python code. Assume u get temperature & humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

CODING :

```
import random
from time import *
print("*****")
flag=True
while(flag):
    temp = random.randint(0,50)
    humi = random.randint(10,50)
    if temp>45 and humi<30:
        print("Ambient Temperature =",temp,"Ambient Humidity =",humi)
        print("ALARM ON")
        flag=False
    else:
        print("Ambient Temperature =",temp,"Ambient Humidity",humi)
        sleep(0.5);

print("*****")
```

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main.py

1 import random

2 from time import *

3 print("*****")

4 flag=True

5 while(flag):

6 temp = random.randint(0,50)

7 humi = random.randint(10,50)

8 if temp>45 and humi<30:

9 print("Ambient Temperature =",temp,"Ambient Humidity =",humi)

10 print("ALARM ON")

11 flag=False

12 else:

13 print("Ambient Temperature =",temp,"Ambient Humidity",humi)

14 sleep(0.5);

15

16 print("*****")

Run

Shell

Clear

Ambient Temperature = 39 Ambient Humidity 39

Ambient Temperature = 8 Ambient Humidity 15

Ambient Temperature = 8 Ambient Humidity 45

Ambient Temperature = 0 Ambient Humidity 10

Ambient Temperature = 3 Ambient Humidity 16

Ambient Temperature = 22 Ambient Humidity 38

Ambient Temperature = 39 Ambient Humidity 13

Ambient Temperature = 2 Ambient Humidity 50

Ambient Temperature = 37 Ambient Humidity 33

Ambient Temperature = 42 Ambient Humidity 48

Ambient Temperature = 43 Ambient Humidity 19

Ambient Temperature = 25 Ambient Humidity 14

Ambient Temperature = 19 Ambient Humidity 13

Ambient Temperature = 8 Ambient Humidity 48

Ambient Temperature = 39 Ambient Humidity 32

Ambient Temperature = 27 Ambient Humidity 25

Ambient Temperature = 28 Ambient Humidity 40

Ambient Temperature = 4 Ambient Humidity 27

Ambient Temperature = 47 Ambient Humidity = 15

ALARM ON

>

18:45

23-09-2022