

Assignment -2
SMART WASTE MANAGEMENT SYSTEM

Assignment Date	22 September 2022
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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("*****")
```

Shell

```
*****
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
*****
>
```

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