Assignment -2

Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u 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.

Solution:

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

Output:


main.py
Run
Shell
1 import random
2 from time import *
3 flag=True
4 while(flag):
5 a = random.randint(0,50)
6 b = random.randint(10,50)
7 if a>45 and b<30:
8 print("Ambient Temperature =",a,"Ambient Humidity =",b)
9 print("----------ALARM ON----------")
10 flag=False
11 else:
12 print("Ambient Temperature =",a,"Ambient Humidity",b)
13 sleep(0.5);
Ambient Temperature = 32 Ambient Humidity 26
Ambient Temperature = 5 Ambient Humidity 46
Ambient Temperature = 18 Ambient Humidity 20
Ambient Temperature = 20 Ambient Humidity 49
Ambient Temperature = 35 Ambient Humidity 24
Ambient Temperature = 17 Ambient Humidity 30
Ambient Temperature = 21 Ambient Humidity 46
Ambient Temperature = 22 Ambient Humidity 35
Ambient Temperature = 24 Ambient Humidity 10
Ambient Temperature = 36 Ambient Humidity 15
Ambient Temperature = 22 Ambient Humidity 39
Ambient Temperature = 22 Ambient Humidity 21
Ambient Temperature = 0 Ambient Humidity 24
Ambient Temperature = 35 Ambient Humidity 39
Ambient Temperature = 0 Ambient Humidity 44
Ambient Temperature = 50 Ambient Humidity = 26
----------ALARM ON----------
>