Assignment -2

Python Programming

Assignment Date	19 September 2022
Student Name	K.R.Shalini
Student Roll Number	910619104074
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):
    c= random.randint(0,50)
    d = random.randint(10,50)
    if c>45 and d<30:
        print("Ambient Temperature =",c,"Ambient Humidity =",d)
        print("----------ALARM ON----------")
        flag=False
    else:
        print("Ambient Temperature =",c,"Ambient Humidity",d)
        sleep(0.5);
```

Output:

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

```
Ambient Temperature = 3 Ambient Humidity 43
Ambient Temperature = 32 Ambient Humidity 24
Ambient Temperature = 30 Ambient Humidity 27
Ambient Temperature = 25 Ambient Humidity 22
Ambient Temperature = 36 Ambient Humidity 11
Ambient Temperature = 24 Ambient Humidity 31
Ambient Temperature = 27 Ambient Humidity 36
Ambient Temperature = 37 Ambient Humidity 44
Ambient Temperature = 20 Ambient Humidity 14
Ambient Temperature = 15 Ambient Humidity 38
Ambient Temperature = 16 Ambient Humidity 13
Ambient Temperature = 17 Ambient Humidity 10
Ambient Temperature = 5 Ambient Humidity 28
Ambient Temperature = 21 Ambient Humidity 21
Ambient Temperature = 0 Ambient Humidity 12
Ambient Temperature = 46 Ambient Humidity = 23
----------------------ALARM ON----------------------
>
```