Assignment-2

Name:PRABHAKARAN KT
College:KARPAGAM COLLEGE OF ENGINEERING
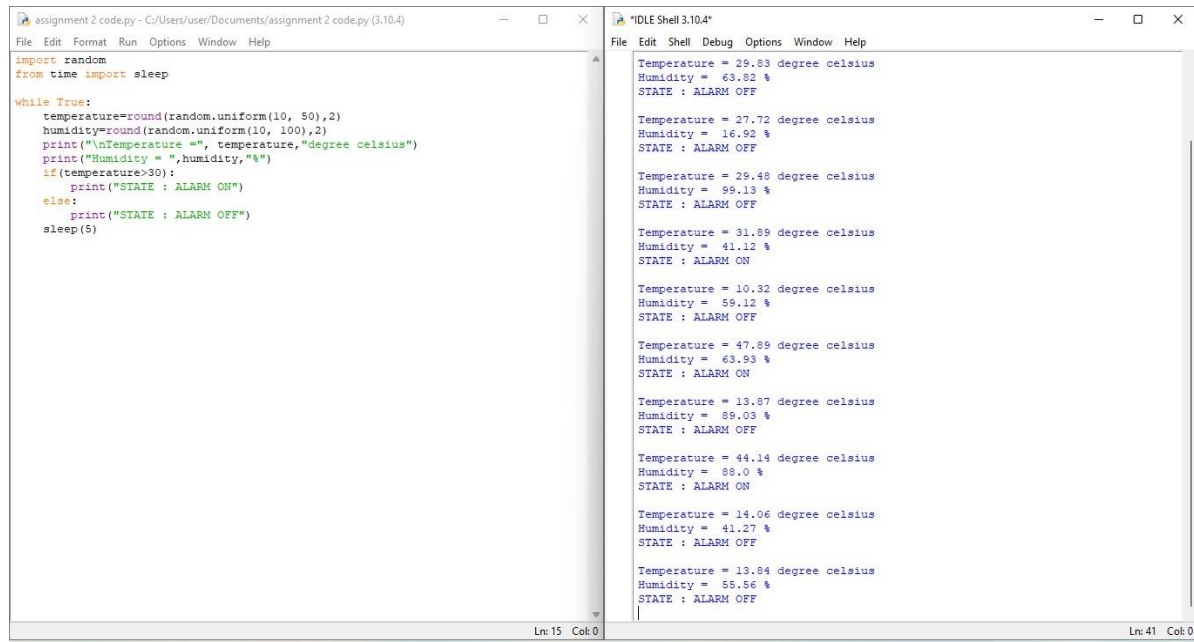**TEAM ID:PNT2022TMID12757**

ASSIGNMENT QUESTION:

Build a python code,assume u get temperature and humidity values(generated with a random function to a variable)and write a condition to detect an alaram in case of high temperature continuously.

PYTHON CODE:

```python
import random
from time import sleep

while True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("\nTemperature =", temperature,"degreecelsius")
    print("Humidity = ",humidity,"%")
    if(temperature>32):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
```

OUTPUT:

```
assignment 2 code.py - C:/Users/user/Documents/assignment 2 code.py (3.10.4)

File  Edit  Format  Run  Options  Window  Help

import random
from time import sleep

while True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("\nTemperature =", temperature,"degree celsius")
    print("Humidity = ",humidity,"%")
    if(temperature>30):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)

                                                        Ln: 15  Col: 0
```

```
*IDLE Shell 3.10.4*

File  Edit  Shell  Debug  Options  Window  Help

Temperature = 29.83 degree celsius
Humidity =  63.82 %
STATE : ALARM OFF

Temperature = 27.72 degree celsius
Humidity =  16.92 %
STATE : ALARM OFF

Temperature = 29.48 degree celsius
Humidity =  99.13 %
STATE : ALARM OFF

Temperature = 31.89 degree celsius
Humidity =  41.12 %
STATE : ALARM ON

Temperature = 10.32 degree celsius
Humidity =  59.12 %
STATE : ALARM OFF

Temperature = 47.89 degree celsius
Humidity =  63.93 %
STATE : ALARM ON

Temperature = 13.87 degree celsius
Humidity =  89.03 %
STATE : ALARM OFF

Temperature = 44.14 degree celsius
Humidity =  88.0 %
STATE : ALARM ON

Temperature = 14.06 degree celsius
Humidity =  41.27 %
STATE : ALARM OFF

Temperature = 13.84 degree celsius
Humidity =  55.56 %
STATE : ALARM OFF

                                                        Ln: 41  Col: 0
```