Assignment -02
PYTHON PROGRAMMING
MAHENDRA INSTITUTE OF TECHNOLOGY

Assignment Date	25 September 2022
Team ID	PNT2022TMID17295
Project Name	IoT based Smart Crop Protection System For Agriculture
Maximum Marks	2 Marks

Question :

Build a python code, Assume you 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 time

i=0

While (i<=1440): i=i+1 time.sleep(10) import

    random temp=random.randint(0,30)

    humid=random.randit(1,1000) if temp<=15:

    print (temp,"degree the temperature is low")

    elif temp<=25:

        print (temp,"degree the temperature is normal")

    else:

        print (temp,"degree the temperature is high") if

    humid<=50:

        print (humid,"the humidity is low")

    elif humid<=80:

        print (humid,"the humidity is normal")

    else:

        print (humid,"the humidity is high")
```

```python
import time
i=0
while (i<=1440):
    i=i+1
    time.sleep(10)

    import random
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print (temp, "degree the temperature is low")
    elif temp<=25:
        print (temp, "degree the temperature is normal")
    else:
        print (temp, "degree the temperature is high")
    if humid<=50:
        print (humid, "the humidity is low")
    elif humid<=80:
        print (humid, "the humidity is normal")
    else:
        print (humid, "the humidity is high")
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:/Users/Muthusamy/Desktop/murali.py ================
29 degree the temperature is high
30 the humidity is low
12 degree the temperature is low
81 the humidity is high
25 degree the temperature is normal
42 the humidity is low
25 degree the temperature is normal
32 the humidity is low
7 degree the temperature is low
16 the humidity is low
8 degree the temperature is low
63 the humidity is normal
```

Ln: 5 Col: 0