Assignment – 2

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Maximum marks	2

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
temperature=random.randint(1,100)
print("temperature level",temperature)
humidity=random.randint(1,100)
print("humidity level",humidity)
if temperature in range(1,45,1):
        print(" low temperatures ")
        print("alaram is off")
elif temperature in range(46,100,1):
    print("high temperature")
    print("alaram is on")
if humidity in range(1,60,1):
  print("the humidity is normal")
else:
  print("the humidity is high")
```

PYTHON CODE.py - C:\Users\ELCOT\Desktop\Assignments\Team Lead\Assignment 2\PYTHON CODE.py (3.8.2)

File Edit Format Run Options Window Help

```
import random
temperature=random.randint(1,100)
print("temperature level",temperature)
humidity=random.randint(1,100)
print("humidity level",humidity)
if temperature in range(1,45,1):
            print(" low temperatures ")
            print("alaram is off")
elif temperature in range(46,100,1):
        print("high temperature")
        print("alaram is on")
if humidity in range(1,60,1):
    print("the humidity is normal")
else:
    print("the humidity is high")
```

Ln: 1 Col: 0

OUTPUT:

Python 3.8.2 Shell

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```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\ELCOT\Desktop\Assignments\Team Lead\Assignment 2\PYTHON CODE.py
temperature level 22
humidity level 68
 low temperatures
alaram is off
the humidity is high
>>>
========== RESTART: C:\Users\ELCOT\Desktop\Assignments\Team Lead\Assignment 2\PYTHON CODE.py ==========
temperature level 83
humidity level 10
high temperature
alaram is on
the humidity is normal
>>>
========== RESTART: C:\Users\ELCOT\Desktop\Assignments\Team Lead\Assignment 2\PYTHON CODE.py ==========
temperature level 51
humidity level 30
high temperature
alaram is on
the humidity is normal
>>>
```

Ln: 24 Col: 4