ASSIGNMENT – 2

TASK: 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.

CODE

```
import time
import random
while(True):
    time.sleep(3)
    temperature=random.randint(0,60)
    humidity=random.randint(1,100)
    if temperature<=15:
        print(temperature, "Temperature is low")
    elif temperature<=45:</pre>
        print(temperature, "Temperature is Normal")
    else:
        print(temperature,"ALERT, Temperature is High")
    if humidity<=30:
        print(humidity,"ALERT, Humidity is Low")
    elif humidity<=70:</pre>
        print(humidity,"Humidity is Normal")
    else:
        print(humidity,"Humidity is High")
```

OUTPUT

```
▶ Temperature.py - C\Users\dhanu\Desktop\Temperature.py (3.10.1)
                                                   AIDLE Shell 3.10.1*
                                                          File Edit Shell Debug Options Window Help
import time
                                                              Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 202
                                                              1, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win
import random
                                                              32
                                                              Type "help", "copyright", "credits" or "license
while (True):
                                                              ()" for more information.
    time.sleep(3)
                                                                       ====== RESTART: C:\Users\dhanu\Deskto
                                                              p\Temperature.py ========
                                                              10 Temperature is low
    temperature=random.randint(0,60)
                                                              2 ALERT, Humidity is Low
    humidity=random.randint(1,100)
                                                              44 Temperature is Normal
                                                              43 Temperature is Normal
    if temperature<=15:</pre>
                                                              5 Temperature is low
                                                              27 Temperature is Normal
        print(temperature, "Temperature is low")
                                                              12 ALERT, Humidity is Low
                                                             25 Temperature is Normal
    elif temperature<=45:</pre>
                                                              15 Temperature is low
                                                              38 Temperature is Normal
        print(temperature, "Temperature is Normal")
                                                             16 Temperature is Normal
                                                             21 Temperature is Normal
    else:
                                                              0 Temperature is low
                                                              6 ALERT, Humidity is Low
        print(temperature,"ALERT, Temperature is Hig
                                                              25 Temperature is Normal
                                                              51 ALERT, Temperature is High
    if humidity<=30:</pre>
                                                              3 ALERT, Humidity is Low
                                                              27 Temperature is Normal
        print(humidity,"ALERT, Humidity is Low")
                                                              22 ALERT, Humidity is Low
                                           🗎 🗓 💼 🔘 📱 🔅 👩 🥵
                                                                                                 へ G ENG 令 Ф ■ 17:0
 33°C
Partly sunny
```