Assignment -2
Python Programming

Assignment Date	27 October 2022
Student Name	NIJANTHAN S
Student Roll Number	612419106005
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 detectalarm in case of high temperature.

Solution:

```python
import random
import time
while True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)

    if Temperature > 100 and Humidity > 80:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Temperature and Humidity is High")
        print("Alarm On !!!")
        print(" ")
        time.sleep(2)
    else:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Range is Normal")
        print(" ")
```

```python
import random
import time

Tele x aLuxe = zandon. xandinL t O , 150)
humidity = random.iandint{0,100}

if Temperature > 100 an:I Humidity > 80:
    pzintl'Temperasure : " + scr{Temperature})
    pzintl"Jumidizy : " + str(Humidity))
    pzintl'Terperasure and ñamidisy is Mig."}
    pzintl"Alarz On !!!"}
    piintl" ")
    time.sleep{2}

    pzintl"Terperasure : " + str{Temperature})
    pzintl"Jamzdizy : " + str(Humidity))
    printl'Ranoe is Normal")
    piintl" ")
```

```
                                           [MSC v.1933 %9 bIu

                                           information.

———————— RESTART:                          2.pY ————————
Temperature : 66

Range 1a NO zma1

Humidity : 52
Range is Normal

Temperature : 69

Ranpe 1s EIO zma1

Temperature : 103

Range is Nozmal

temperature : B

Range 1s  EIO zma1

7empezacuze : GB

Range is Dozmsl

Temperature : 1Z7

temperature and H   aity is High
Alarm On !!!
```

```
Range is Normal

Temperature : 80
Humidity : 83
Range is Normal

Temperature : 125
Humidity : 30
Range is Normal

Temperature : 139
Humidity : 7
Range is Normal

Temperature : 2
Humidity : 18
Range is Normal

Temperature : 29
Humidity : 29
Range is Normal

Temperature : 18
Humidity : 88
Range is Normal

Temperature : 193
Humidity : 39
Range is Normal

Temperature : 19
Humidity : 63
Range is Normal

Temperature : 111
humidity : 96
Temperature end humidity is High
Alarm On '''
```