

## Assignment -2

### Python Programming

Assignment Date	27 September 2022
Student Name	V.Hema Dharshini
Student Roll Number	912419104009
Maximum Marks	2 Marks

#### Question-1:

1. 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 :

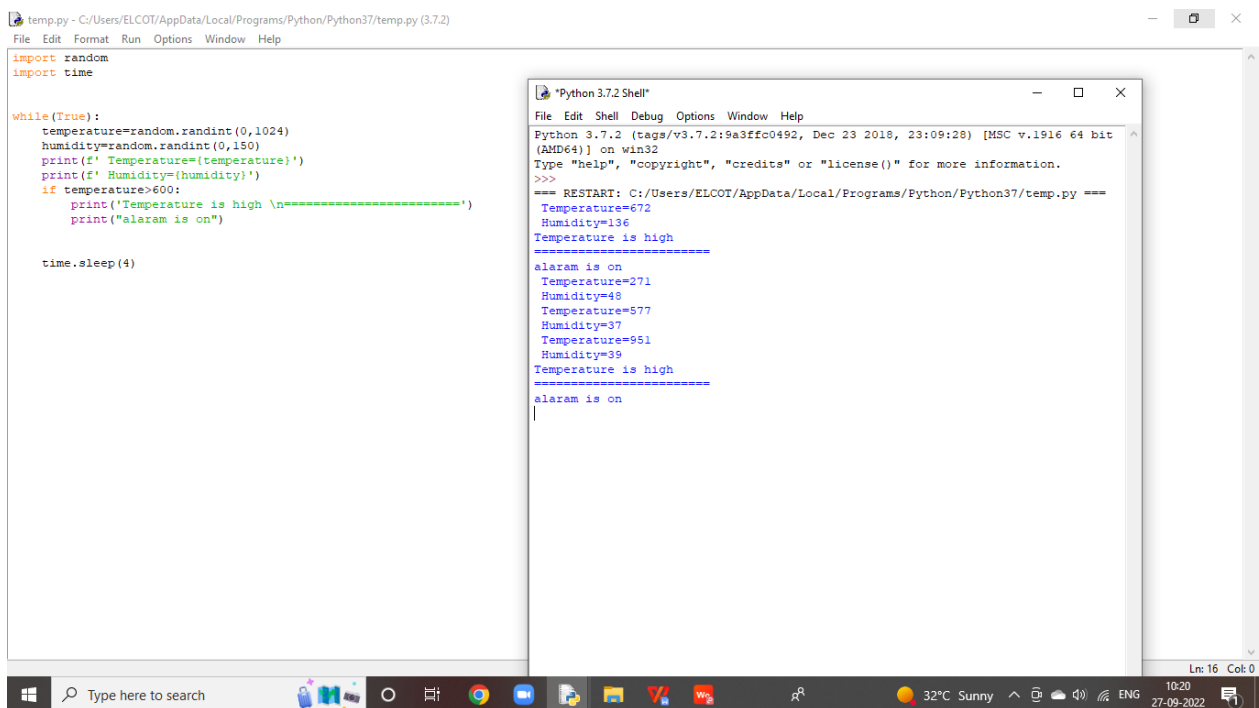
```
import random
import time

while(True):
    temperature=random.randint(0,1024)
    humidity=random.randint(0,150)
    print(f' Temperature={temperature}')
    print(f' Humidity={humidity}')
    if temperature>600:
        print('Temperature is high \n=====')
        print("alarm is on")

    time.sleep(4)
```

#### Screenshot:

#### Program and Output:



The screenshot displays a Python IDE window titled 'temp.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/temp.py (3.7.2)'. The code in the editor is as follows:

```
import random
import time

while(True):
    temperature=random.randint(0,1024)
    humidity=random.randint(0,150)
    print(f' Temperature={temperature}')
    print(f' Humidity={humidity}')
    if temperature>600:
        print('Temperature is high \n=====')
        print("alarm is on")

    time.sleep(4)
```

Next to the code editor is a 'Python 3.7.2 Shell' window showing the output of the program. The output is as follows:

```
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/temp.py ====
Temperature=672
Humidity=136
Temperature is high
=====
alarm is on
Temperature=271
Humidity=48
Temperature=577
Humidity=37
Temperature=951
Humidity=39
Temperature is high
=====
alarm is on
|
```

The taskbar at the bottom shows the system clock as 10:20 on 27-09-2022, with a weather widget indicating 32°C Sunny.