

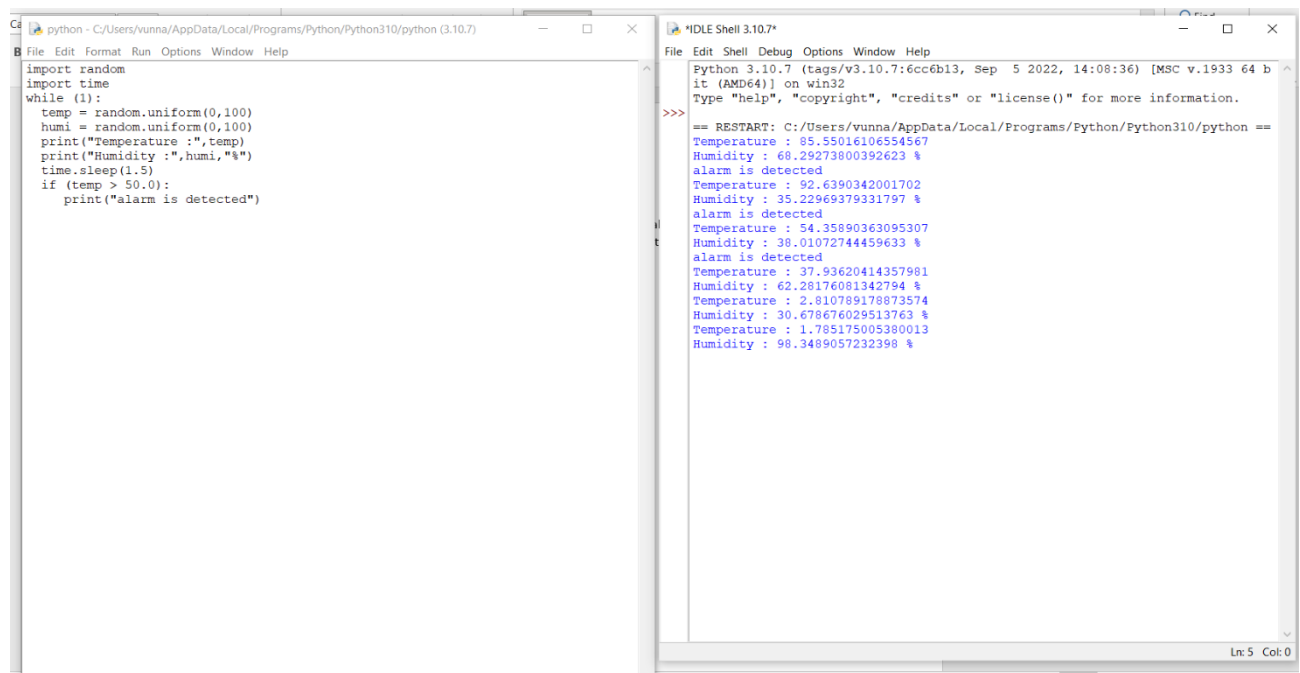
Assignment -2

Date	19 September 2022
Student name	SANGEETHA E
Project Name	PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT USING IoT TECHNOLOGY
Maximum Marks	2 Marks

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
import time
while (1):
    temp = random.uniform(0,100)
    humi = random.uniform(0,100)
    print("Temperature :",temp)
    print("Humidity :",humi,"%")
    time.sleep(1.5)
    if (temp > 50.0):
        print("alarm is detected")
```



The screenshot displays a Python IDE with two windows. The left window shows the source code for a script that generates random temperature and humidity values and checks for an alarm condition. The right window shows the output of the script, which prints the generated values and the alarm message when the temperature exceeds 50.0.

```
python - C:/Users/vunna/AppData/Local/Programs/Python/Python310/python (3.10.7)
File Edit Format Run Options Window Help
import random
import time
while (1):
    temp = random.uniform(0,100)
    humi = random.uniform(0,100)
    print("Temperature :",temp)
    print("Humidity :",humi,"%")
    time.sleep(1.5)
    if (temp > 50.0):
        print("alarm is detected")
```

```
*IDLE Shell 3.10.7*
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 b
it (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/vunna/AppData/Local/Programs/Python/Python310/python ==
Temperature : 85.55016106554567
Humidity : 68.29273800392623 %
alarm is detected
Temperature : 92.6390342001702
Humidity : 35.22969379331797 %
alarm is detected
Temperature : 54.35890363095307
Humidity : 38.01072744459633 %
alarm is detected
Temperature : 37.93620414357981
Humidity : 62.28176081342794 %
Temperature : 2.810789178873574
Humidity : 30.678676029513763 %
Temperature : 1.785175005380013
Humidity : 98.3489057232398 %
```