

Assignment -2

Python Programming

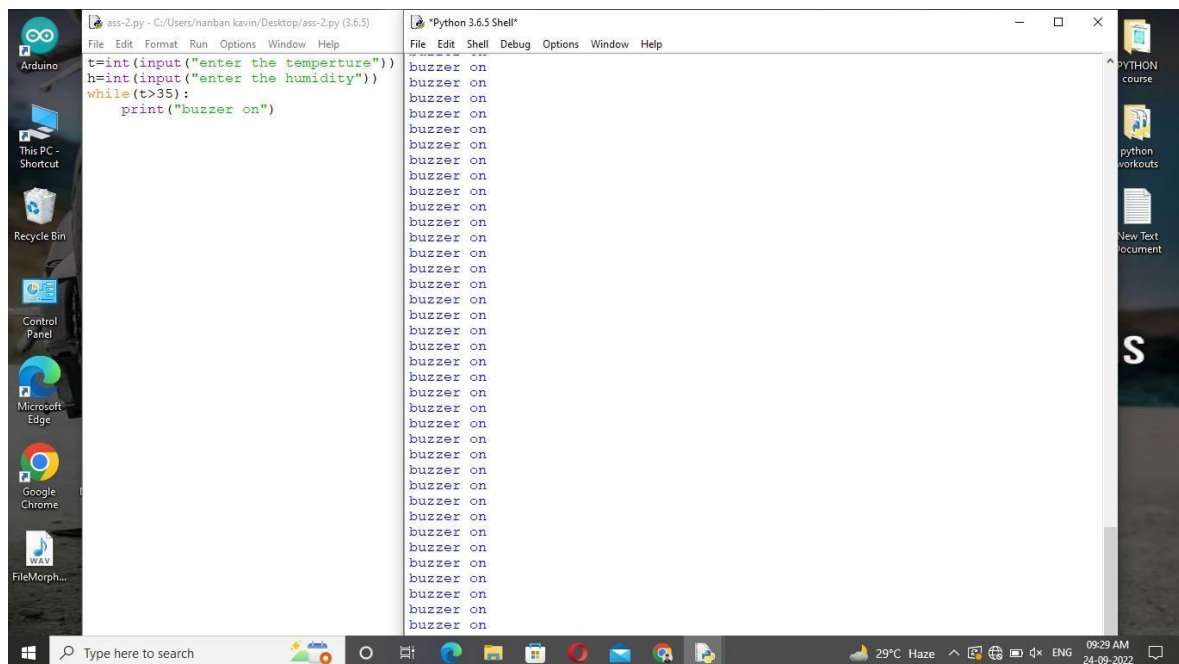
Assignment Date	26 September 2022
Student Name	Mr. Sundara Moorthi M
Student Roll Number	621319106316
Maximum Marks	2 Marks

Question-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.

Program:

```
t=int(input("enter the temperture"))
h=int(input("enter the humidity"))
while(t>35):
    print("buzzer on")
```



Program 2:

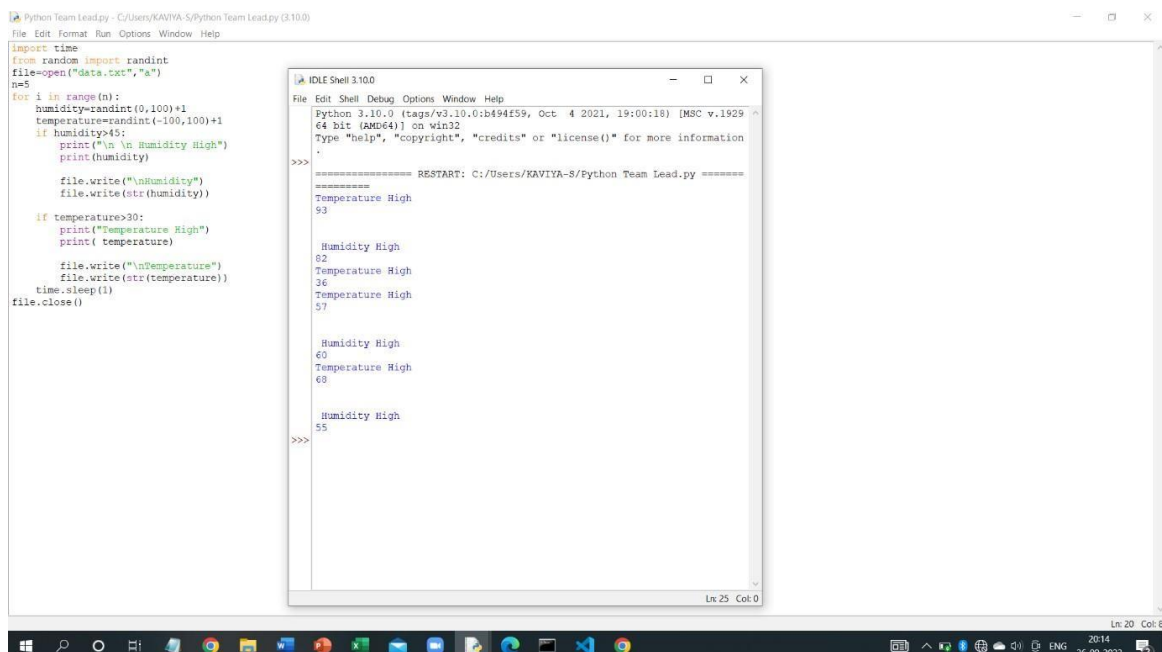
```
import time
from random import randint
file=open("data.txt","a")
n=5
for i in range(n):
    humidity=randint(0,100)+1
    temperature=randint(-100,100)+1
    if humidity>45:
        print("\n \n Humidity High")
        print(humidity)

        file.write("\nHumidity")
        file.write(str(humidity))

    if temperature>30:
        print("Temperature High")
        print( temperature)

        file.write("\nTemperature")
        file.write(str(temperature))

    time.sleep(1)
file.close()
```



The screenshot shows a Python IDE window titled 'Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)'. The code in the editor is the same as the one provided in the previous block. A smaller window titled 'IDLE Shell 3.10.0' is open, showing the output of the program. The output includes a restart message and several lines of data: 'Temperature High 93', 'Humidity High 92', 'Temperature High 36', 'Temperature High 57', 'Humidity High 60', 'Temperature High 68', and 'Humidity High 55'. The status bar at the bottom of the IDE window shows 'Ln: 25 Col: 0'.

```
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information
>>>
===== RESTART: C:/Users/KAVIYA-S/Python Team Lead.py =====
Temperature High
93

Humidity High
92
Temperature High
36
Temperature High
57

Humidity High
60
Temperature High
68

Humidity High
55
>>>
```