

Assignment-1

PythonProgramming

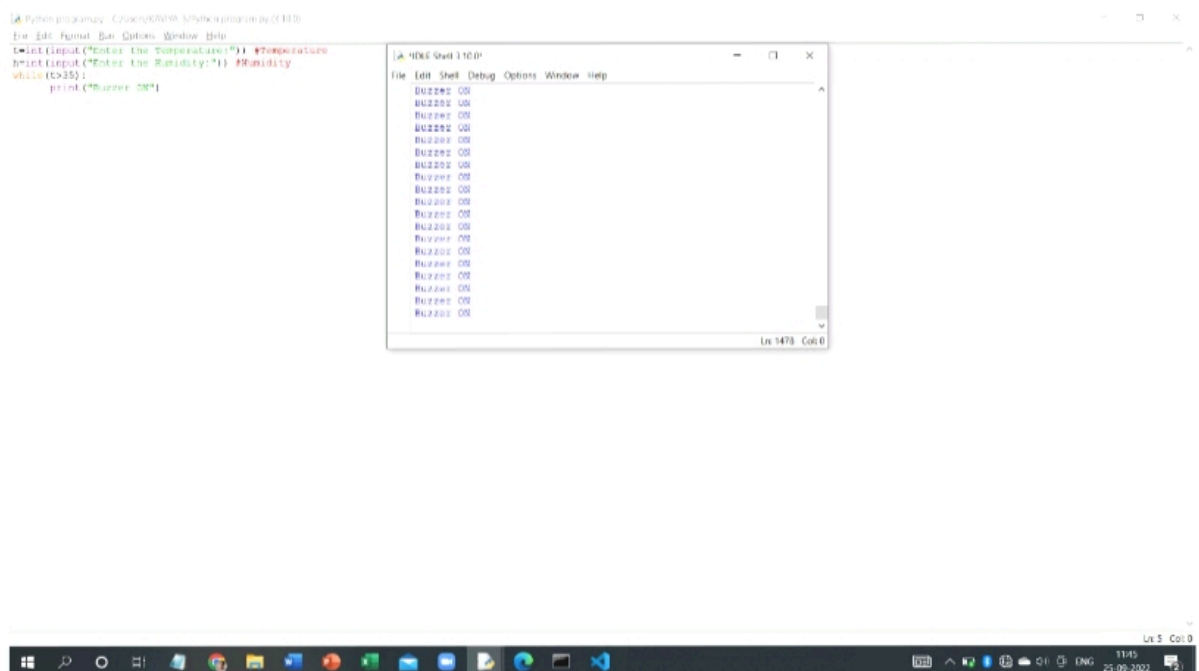
AssignmentDate	26September2022
StudentName	Ms. Gopika S
StudentRollNumber	621319106019
MaximumMarks	2 Marks

Question-1:

Build a python code, Assume you get temperature and humidity values (generated with randomfunction to a variable) and write a condition to continuously detect alarm in case of hightemperature.

Program:

```
t=int(input("Enter the Temperature:")) #Temperatureh=int(input("Enter the Humidity:"))
#Humiditywhile(t>35):
    print("BuzzerON")
```



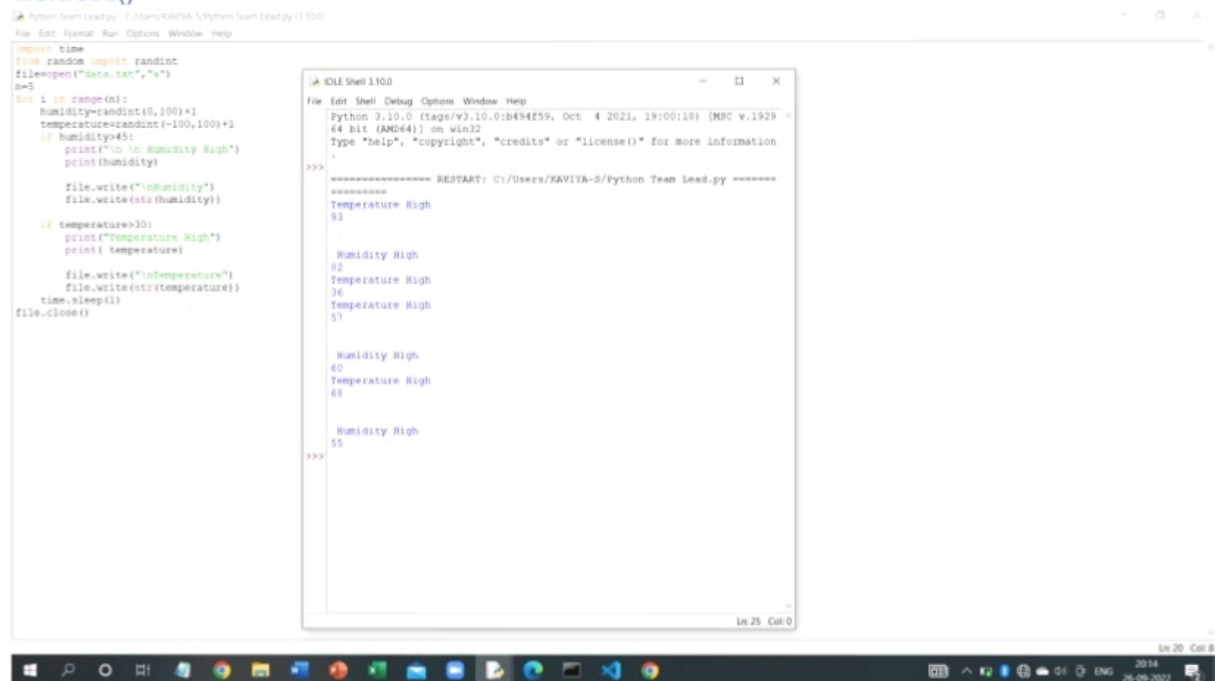
Program:

```
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 with two windows. The left window displays the Python code from the previous block. The right window, titled 'IDLE Shell 1100', shows the output of the program. The output consists of three lines of text, each preceded by a separator line of equals signs. The first line shows 'Temperature High' followed by the value '93'. The second line shows 'Humidity High' followed by the value '82'. The third line shows 'Temperature High' followed by the value '36'. The output is displayed in a monospaced font.

```
Python Team Lead.py C:\Users\KAVIYA\Python Team Lead.py (1/10/1)
File Edit Format Run Options Window Help

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()
```

```
IDLE Shell 1100
File Edit Shell Debug Options Window Help
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-8\Python Team Lead.py =====
Temperature High
93

Humidity High
82
Temperature High
36
Temperature High
53

Humidity High
40
Temperature High
60

Humidity High
55
>>>
```