

Assignment -2
Python Programming

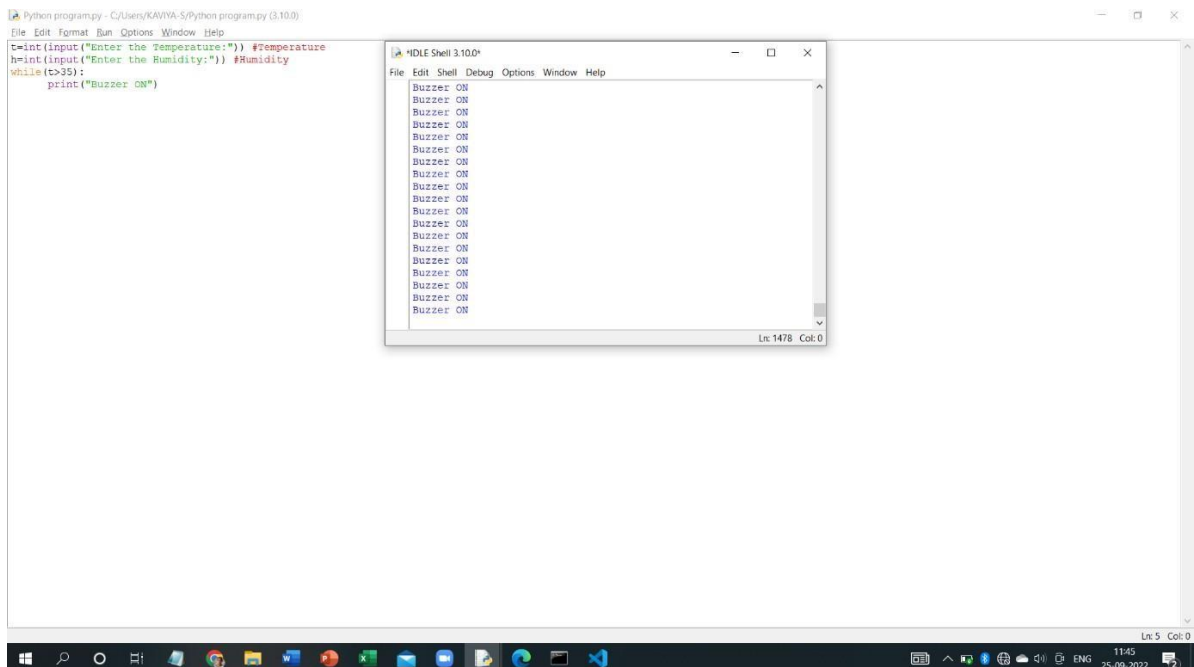
Assignment Date	26 September 2022
Student Name	BATHMA S
Student Roll Number	210819106008
Maximum Marks	2 Marks

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 Temperature:")) #Temperature
h=int(input("Enter the Humidity:")) #Humidity
while(t>35): print("Buzzer ON")
```



```

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 window titled 'Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)'. The code in the editor is as follows:

```

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()

```

Below the editor is a terminal window titled 'IDLE Shell 3.10.0'. It shows the output of the script, which includes several lines of 'Temperature High' and 'Humidity High' messages, along with numerical values for temperature and humidity. The terminal output is as follows:

```

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
82
Temperature High
36
Temperature High
57

Humidity High
60
Temperature High
68

Humidity High
55
>>>

```

The taskbar at the bottom shows the system clock as 20:14 on 26-09-2022.