

Assignment -2
Python Programming

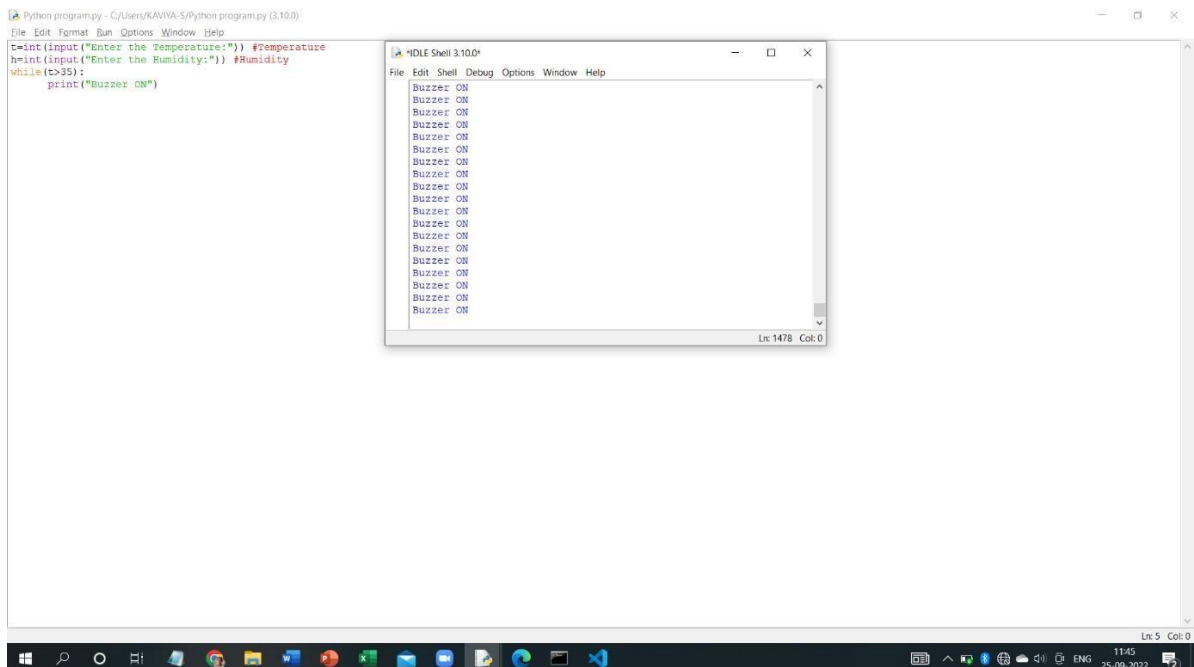
Assignment Date	26 September 2022
Student Name	jensy
Student Roll Number	210819106020
Maximum Marks	2 Marks

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
```



The screenshot shows a Python IDE window titled 'Python program.py - C:/Users/KAVYA-S/Python program.py (3.10.0)'. The code in the editor is as follows:

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

Below the editor, an 'IDLE Shell 3.10.0' window is open, displaying the output of the program. It shows 'Buzzer ON' printed multiple times, indicating that the temperature input was greater than 35. The shell window also shows the file explorer and menu options. The taskbar at the bottom of the screen shows the date and time as 11:45 on 25-09-2022.

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()
```

```
Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)
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\nHumidity High")
        print(humidity)

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

    if temperature>30:
        print("\n\nTemperature High")
        print(temperature)

        file.write("\n\nTemperature")
        file.write(str(temperature))
    time.sleep(1)
file.close()
```

```
IDLE Shell 3.10.0
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-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
>>>
```

Ln: 25 Col: 0

Ln: 20 Col: 8

20:14 26-09-2022 ENG