

Assignment -2

Python Programming

Assignment Date	26 September 2022
Student Name	Ms. Gobika S
Student Roll Number	621319106019
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")
```

Python program.py - C:\Users\KAMIA\S\Python program.py (3.10.0)

File Edit Format Run Options Window Help

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

IDLE Shell 3.10.0

File Edit Shell Debug Options Window Help

```
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
BUZZER ON
```

Ln: 1478 Col: 0

Windows taskbar at the bottom shows the time as 11:45 on 25-09-2022.

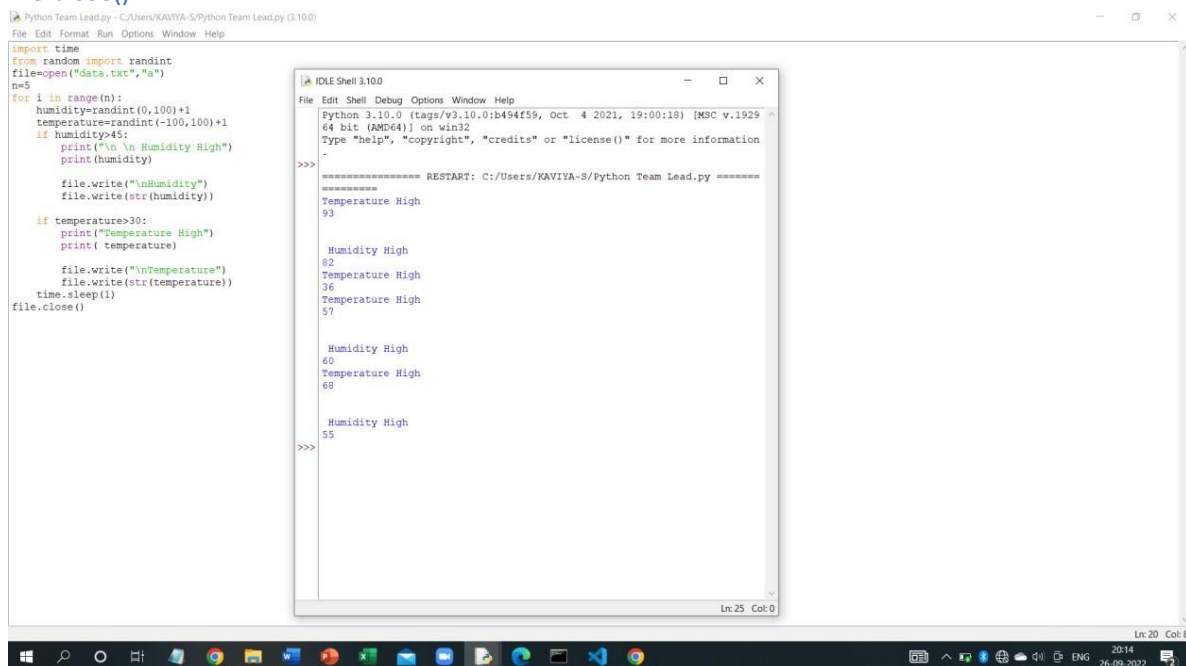
Program:

```
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 displays a Python IDE window titled 'Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)'. The code editor shows the same script as above. An 'IDLE Shell 3.10.0' window is open, showing the output of the script. The output includes a restart message and several lines of generated data:

```
>>>
===== 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.