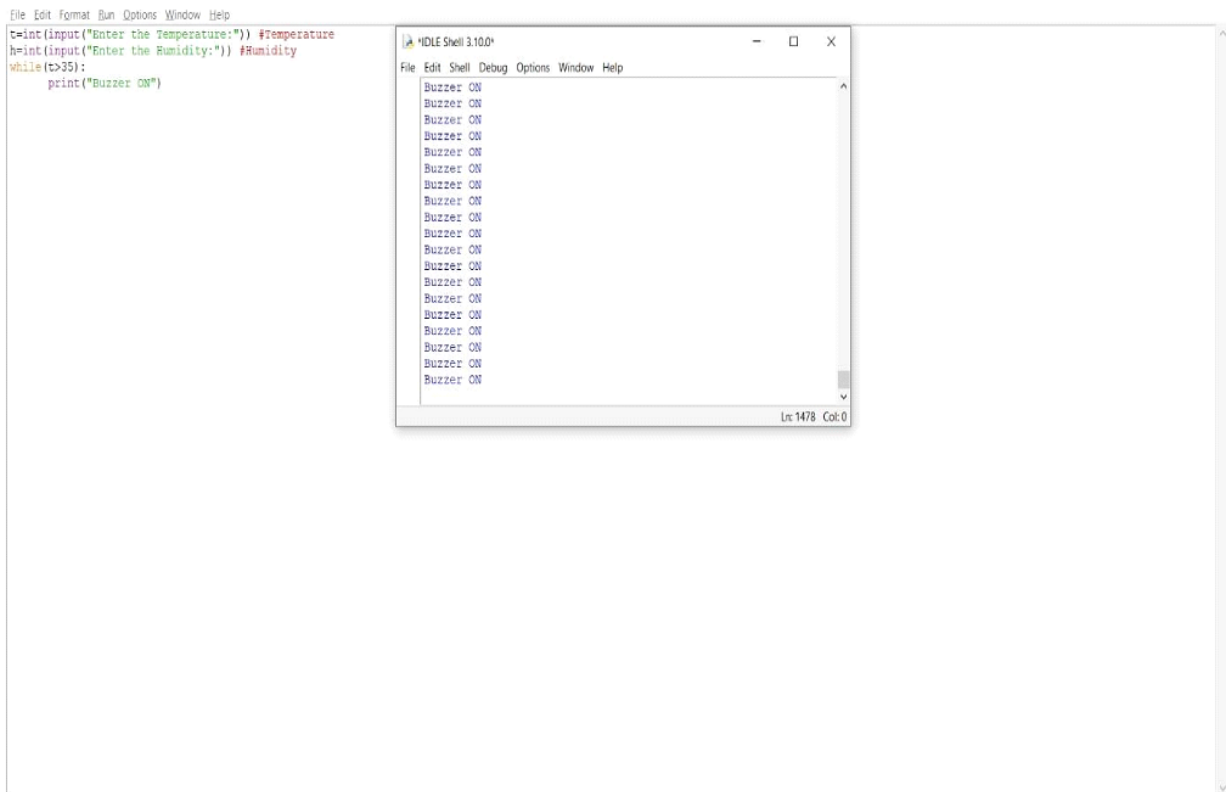


## Assignment -2

### Python Programming

Date	05 October 2022
Team ID	PNT2022TMID25430
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM
Team Members	1 E. HARIKRISHNAN 2 A. AJAYSHAWAK 3 K. ABHISHEK 4 P. JAY

#### Question-1:



The screenshot displays a Python IDE with a code editor on the left and a shell window on the right. The code in the editor is as follows:

```
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")
```

The shell window, titled "IDLE Shell 3.10.0\*", shows the output of the program. It contains 15 lines of "Buzzer ON" printed in a monospaced font. The status bar at the bottom of the shell window indicates "Ln: 1478 Col: 0".

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.

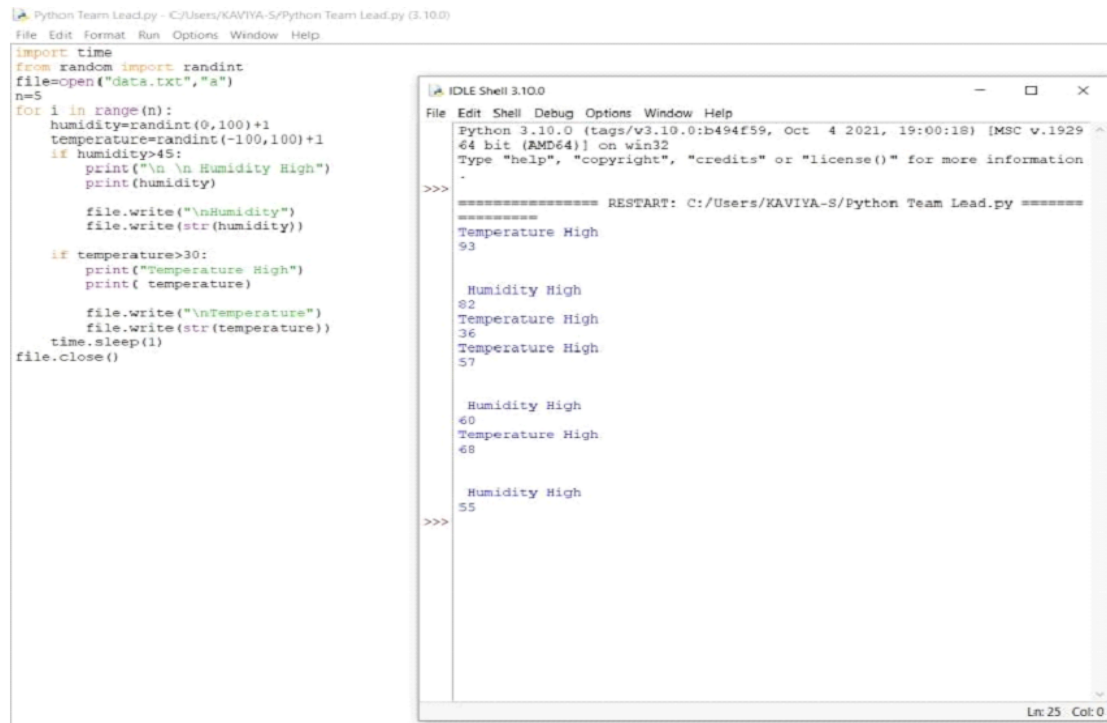
#### Program:

```
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 displays a Python IDE window titled 'Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)'. The code editor on the left contains the following script:

```
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()
```

On the right, the 'IDLE Shell 3.10.0' window shows the execution output. It begins with a restart message: 'RESTART: C:/Users/KAVIYA-S/Python Team Lead.py ====='. The output consists of three groups of lines, each corresponding to one iteration of the loop (n=5). Each group contains a 'Humidity High' message followed by a humidity value, and a 'Temperature High' message followed by a temperature value. The values shown are: 93, 82, 36, 57 for the first group; 60, 68 for the second group; and 55 for the third group. The shell window status bar at the bottom indicates 'Ln: 25 Col: 0'.