

Assignment - 2

Student name	Ishwarya
Student roll number	1901056
Maximum marks	2 marks

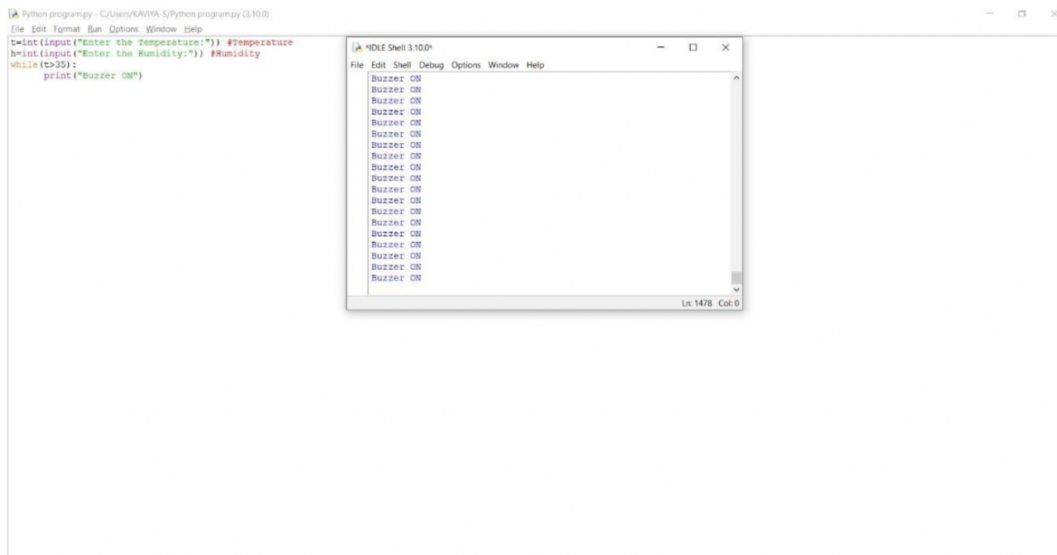
Question-1:

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Program:

```
t=int(input("Enter the Temperature:")) #Temperature
h=int(input("Enter the Humidity:")) #Humidity
```

```
while(t>35):
    print("Buzzer ON")
```



The screenshot displays a Python IDE window titled 'Python program - C:\Users\AKIRA\Python program (3.10.0)'. The code editor contains the following code:

```
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")
```

Below the code editor, a 'Python Shell 3.10.0' window is open, showing the output of the program. It displays a list of 'Buzzer ON' messages, indicating that the condition $t > 35$ was met multiple times during execution. The status bar at the bottom of the shell window shows 'Ln: 14/8 Col: 0'.

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()
```

```
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("\n\nhumidity")
        file.write(str(humidity))

    if temperature>30:
        print("Temperature High")
        print(temperature)

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

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

>>>