

Assignment -2

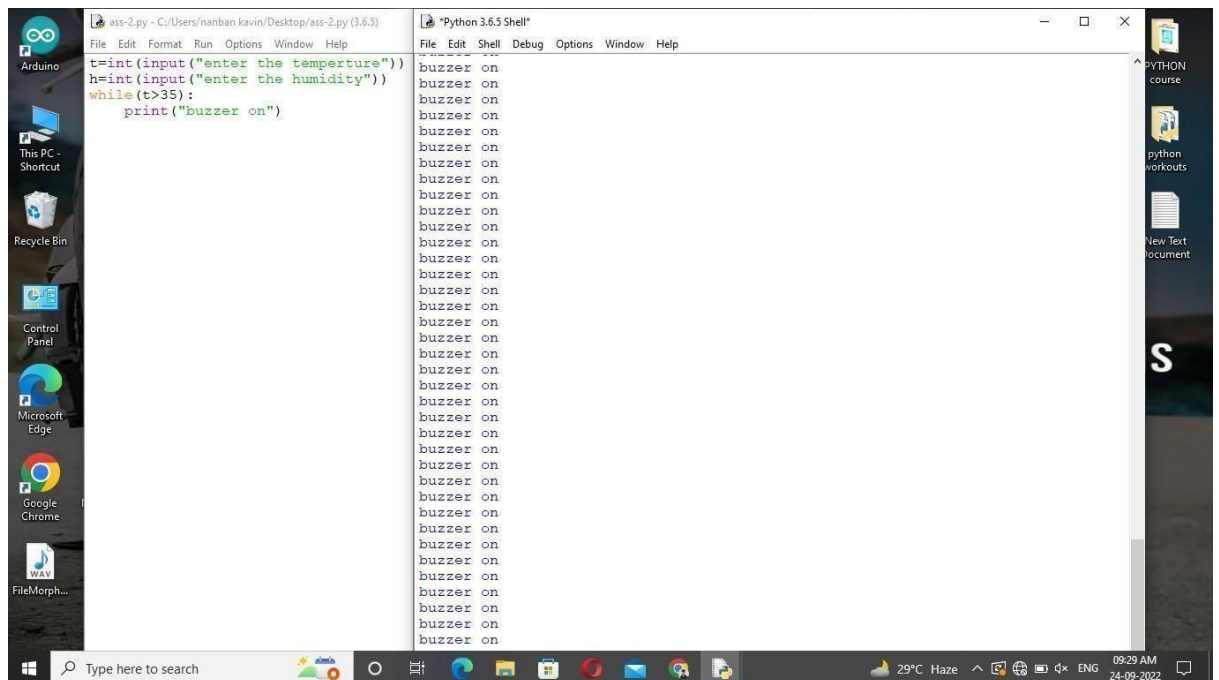
Python Programming

Assignment Date	26 September 2022
Student Name	Mr.Arun R
Student Roll Number	621319106006
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")) h=int(input("enter the humidity")) while(t>35):
print("buzzer on")`



The screenshot shows a Windows desktop environment. In the foreground, there is a window titled "Python 3.6.5 Shell". The window is divided into two panes. The left pane shows the Python code being executed:

```
t=int(input("enter the temperature"))  
h=int(input("enter the humidity"))  
while(t>35):  
    print("buzzer on")
```

The right pane shows the output of the program, which consists of multiple lines of the text "buzzer on". The desktop background is dark, and various icons are visible on the left side, including Arduino, This PC - Shortcut, Recycle Bin, Control Panel, Microsoft Edge, Google Chrome, and FileMorph... The taskbar at the bottom shows the Windows Start button, a search bar, and several open applications. The system tray on the right indicates the temperature is 29°C, the weather is Haze, and the time is 09:29 AM on 24-09-2022.

```

Program 2: 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 code editor is an 'IDLE Shell 3.10.0' window showing the output of the script. The 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 Windows operating system with various application icons and a system clock indicating 20:14 on 26-09-2022.