

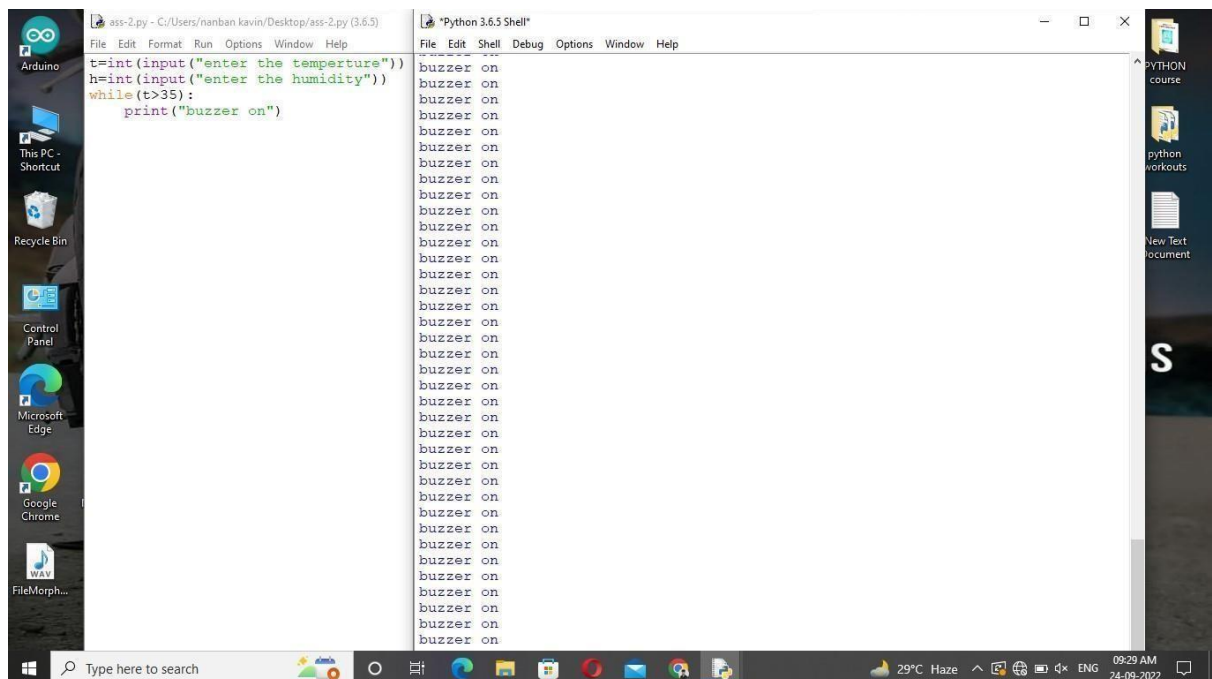
Assignment -2
Python Programming

Assignment Date	26 September 2022
Student Name	Mr.Balaji.R
Student Roll Number	621319106306
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 displays a Windows desktop environment. On the left side, there is a taskbar with icons for Arduino, This PC - Shortcut, Recycle Bin, Control Panel, Microsoft Edge, Google Chrome, and FileMorph... The desktop background is dark. In the center, there are two overlapping windows. The background window is titled 'ass-2.py - C:/Users/nanban kavin/Desktop/ass-2.py (3.6.5)' and contains the following Python code:

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

The foreground window is titled '*Python 3.6.5 Shell*' and shows the output of the program, which is a continuous stream of 'buzzer on' messages. The taskbar at the bottom shows the search bar, task view button, and several open applications. The system tray on the right indicates a temperature of 29°C, Haze weather, and the date/time as 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()
```

```
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
>>>
```