

## Assignment -2

### Python Programming

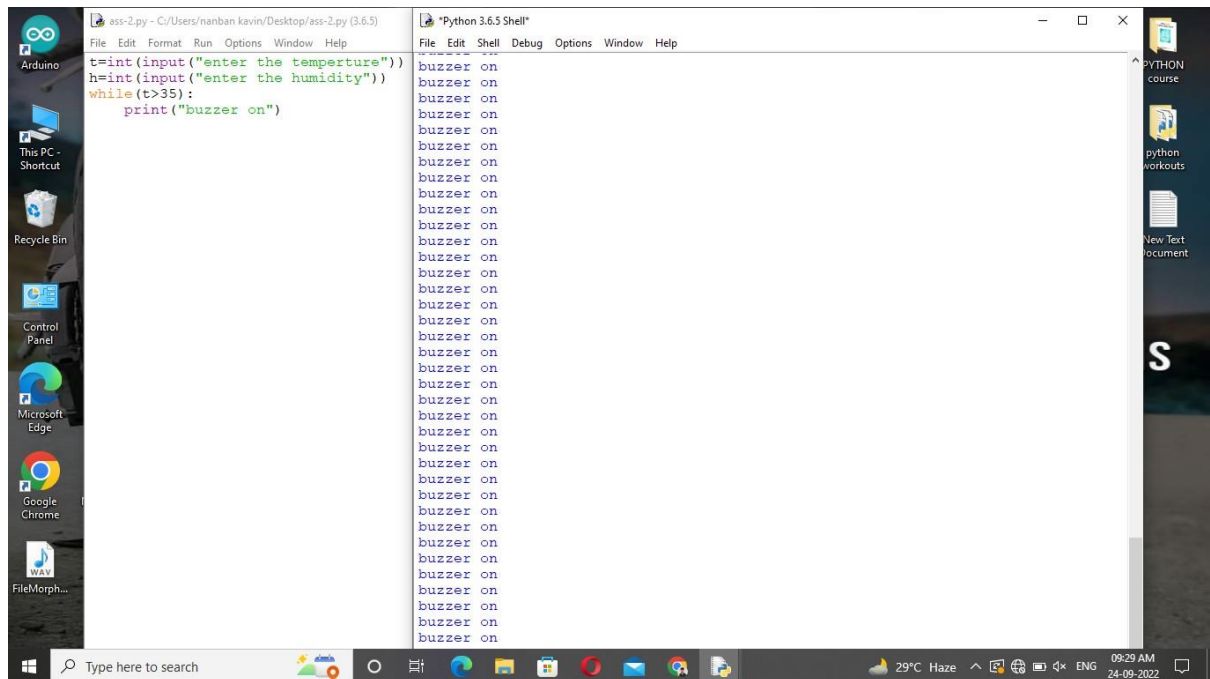
Assignment Date	26 September 2022
Student Name	Mr. Kavin P
Student Roll Number	621319106038
Maximum Marks	2 Marks

#### 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")
```



## Program 2:

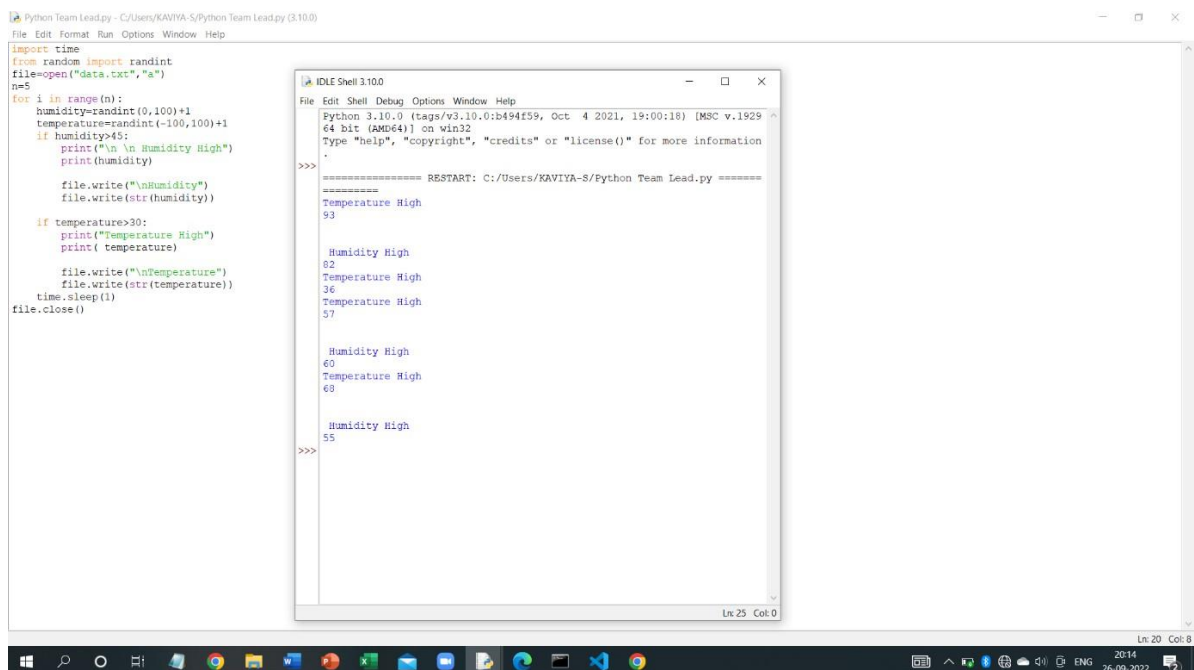
```
import time
from random import randint
file=open("data.txt","a")
n=5
for i in range(n):
    humidity=randint(0,100)+1
    temperature=randint(-100,100)+1
    if humidity>45:
        print("\n \n Humidity High")
        print(humidity)

        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 with two windows. The main window displays the code from Program 2. The shell window shows the output of the program, which includes the text "Temperature High" and "Humidity High" followed by their respective values. The shell window also shows a restart message: "RESTART: C:/Users/KAVIYA-S/Python Team Lead.py =====".

```
Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)
File Edit Format Run Options Window Help

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()

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
>>>
```