

Assignment -1

Python Programming

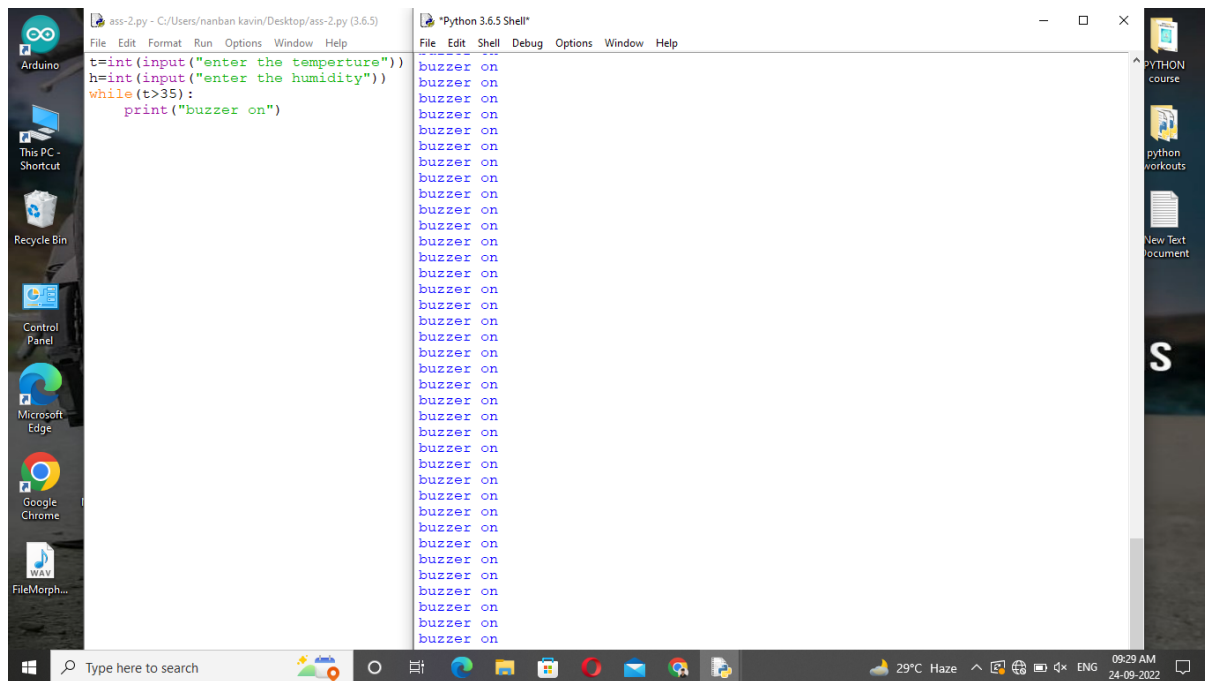
Assignment Date	26 September 2022
Student Name	Mr. Kavın P
Student Roll Number	621319106038
Maximum Marks	2 Marks

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:

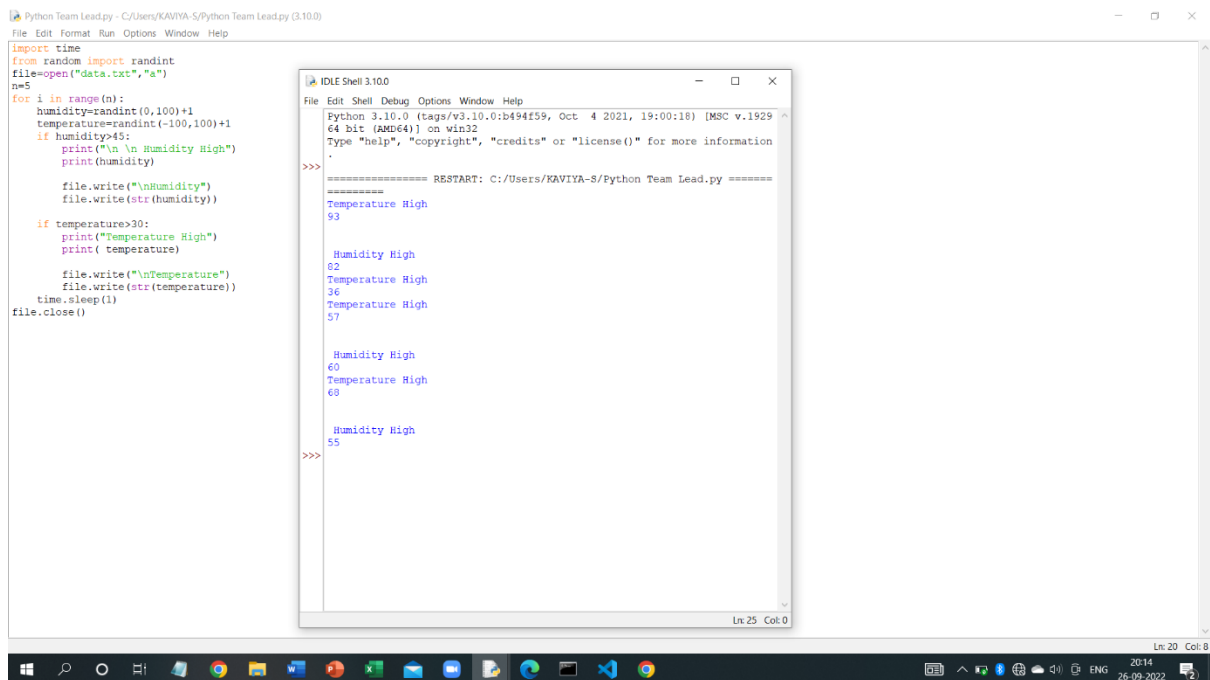
```
import time
from random import randint
file=open("data.txt","a")
n=5
for i in range(n):
    humidity=randint(0,100)+1
    temperature=randint(-100,100)+1
    if humidity>45:
        print("\n \n Humidity High")
        print(humidity)

        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 window titled "Python Team Lead.py - C:/Users/KAVIYA-S/Python Team Lead.py (3.10.0)". The code in the editor is the same as the one in the previous block. A shell window titled "IDLE Shell 3.10.0" is open, showing the output of the program. The output consists of three lines of text, each preceded by a separator line of equals signs. The first line is "Temperature High" followed by the value "93". The second line is "Humidity High" followed by the value "82". The third line is "Temperature High" followed by the value "36". The fourth line is "Humidity High" followed by the value "57". The fifth line is "Humidity High" followed by the value "60". The sixth line is "Temperature High" followed by the value "68". The seventh line is "Humidity High" followed by the value "55". The shell window also shows the Python version "Python 3.10.0" and the file path "C:/Users/KAVIYA-S/Python Team Lead.py".

```
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
>>>
```