

Assignment -2

Python Programming

Assignment Date	29 October 2022
Student Name	Jerlin J
Student Roll Number	210819106021

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:")) #Temperature h=int(input("Enter  
the Humidity:")) #Humidity  
while(t>35): print("Buzzer  
ON")
```

The screenshot shows a Windows desktop environment. On the left, there is a code editor window titled "Python program.py - C:/Users/KAVIYA-S/Python program.py (3.10.0)" containing the following Python script:

```
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")
```

On the right, there is an "IDLE Shell 3.10.0" window with the title bar "File Edit Shell Debug Options Window Help". The shell window displays the repeated output of the script: "Buzzer ON" appears 20 times. The status bar at the bottom of the shell window shows "Ln: 1478 Col: 0".

The taskbar at the bottom of the screen shows several pinned icons, including File Explorer, Edge browser, File Manager, and others. The system tray in the bottom right corner shows the date and time as "25-09-2022 11:45", along with icons for battery, signal, and network.

```

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()

```

```

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()

IDLE Shell 3.10.0
File Edit Shell Debug Options Window Help
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 =====
93
Temperature High
Humidity High
82
Temperature High
36
Temperature High
57

Humidity High
60
Temperature High
68

Humidity High
55
>>>
Ln: 25 Col: 0

```