

Assignment -1

Python Programming

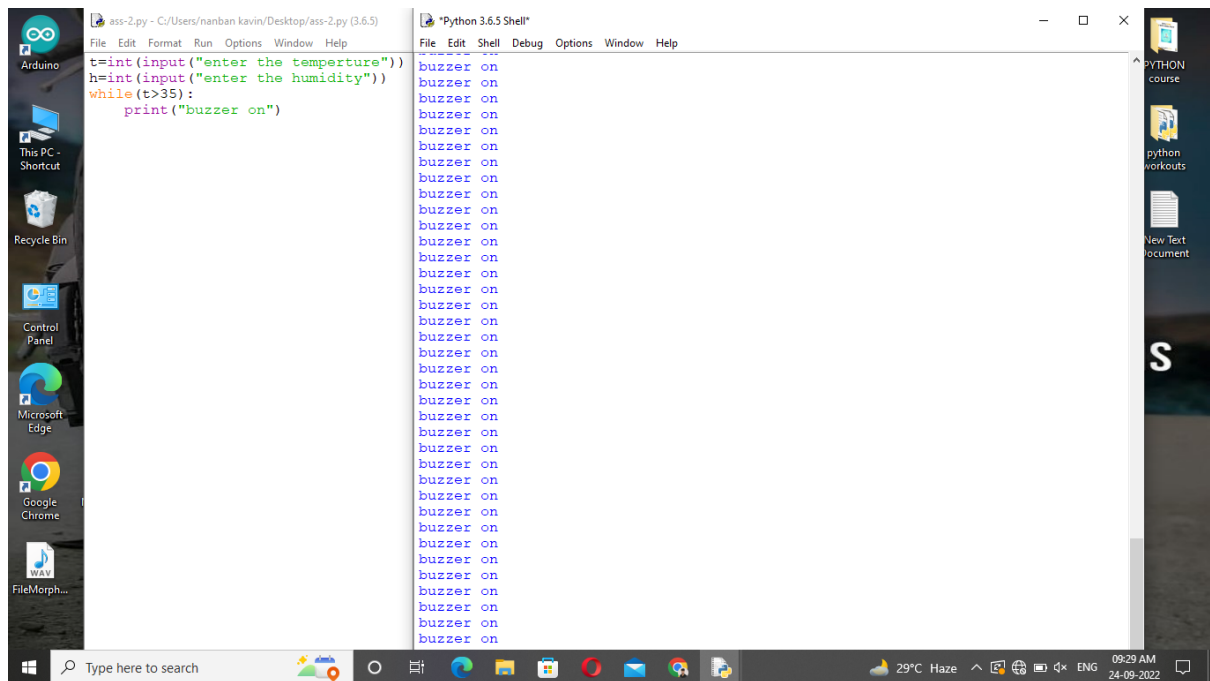
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|---------------------|----------------------|
| Assignment Date | 26 September 2022 |
| Student Name | Mr Sundara Moorthi M |
| Student Roll Number | 621319106316 |
| Maximum Marks | 2 Marks |

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, a taskbar contains icons for Arduino, This PC - Shortcut, Recycle Bin, Control Panel, Microsoft Edge, Google Chrome, and FileMorph... The desktop background is dark blue with a large white 'S' logo. On the right, a vertical sidebar shows icons for PYTHON course, python workouts, and New Text document. The main area shows two windows. The top window is a text editor titled 'ass-2.py - C:/Users/nanban kavin/Desktop/ass-2.py (3.6.5)' with a menu bar (File, Edit, Format, Run, Options, Window, Help) and the following code:

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

The bottom window is a Python 3.6.5 Shell titled '*Python 3.6.5 Shell*' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It displays the output of the code: 'buzzer on' repeated 20 times on separate lines. The Windows taskbar at the bottom shows the search bar, task view button, and several pinned applications. The system tray on the right shows the date and time as 09:29 AM, 24-09-2022, and the temperature as 29°C Haze.

Program 2:

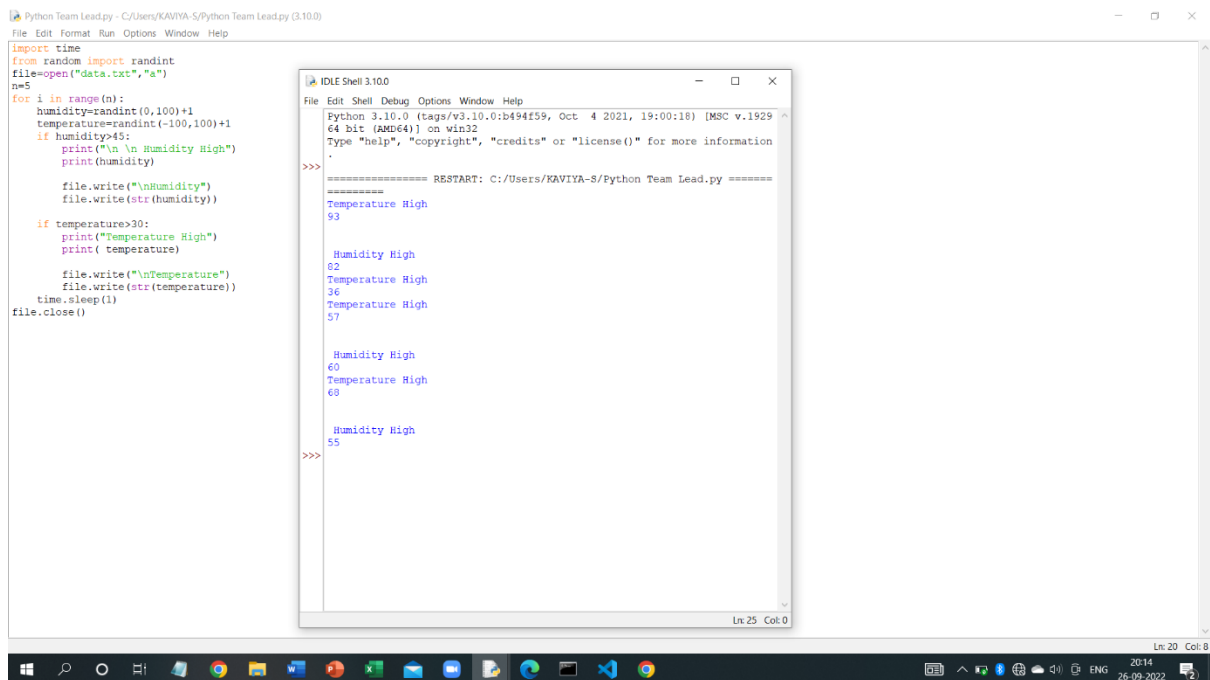
```
import time
from random import randint
file=open("data.txt","a")
n=5
for i in range(n):
    humidity=randint(0,100)+1
    temperature=randint(-100,100)+1
    if humidity>45:
        print("\n \n Humidity High")
        print(humidity)

        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 provided 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 shows "Temperature High" followed by the value 93. The second line shows "Humidity High" followed by the value 82. The third line shows "Temperature High" followed by the value 36. The fourth line shows "Humidity High" followed by the value 57. The fifth line shows "Humidity High" followed by the value 60. The sixth line shows "Temperature High" followed by the value 68. The seventh line shows "Humidity High" followed by the value 55. The shell window also shows the Python version (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
>>>
```