

Assignment -2

Python Programming

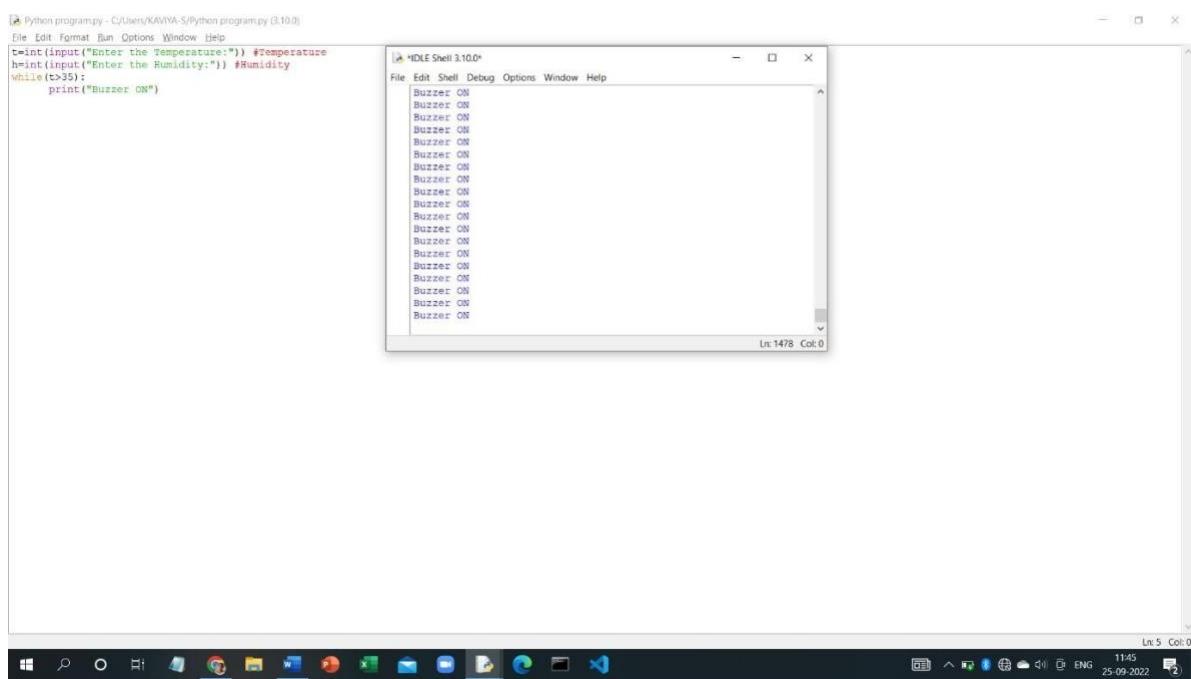
Assignment Date	29 October 2022
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Question-1:

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. In the foreground, there are two windows from the Python IDLE interface. The left window is titled "Python program.py" and contains the following Python code:`t=int(input("Enter the Temperature:")) #Temperature
h=int(input("Enter the Humidity:")) #Humidity
while(t>35):
 print("Buzzer ON")`

The right window is titled "IDLE Shell 3.10.0" and displays the output of the code, which is a continuous loop of the string "Buzzer ON". The desktop taskbar at the bottom shows various icons for system functions like Task View, Start, Search, Task Manager, File Explorer, and others. The system tray in the bottom right corner shows the date (25-09-2022), time (11:45), and battery status.

```

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

```