

Assignment -2

Python Programming

Assignment Date	26 September 2022
Student Name	Mr.Dhanasekar N.S
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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 10 desktop environment. On the left side, there is a vertical taskbar with icons for Arduino, This PC - Shortcut, Recycle Bin, Control Panel, Microsoft Edge, Google Chrome, and FileMorph... The main desktop area features a dark background with a large white 'S' logo. In the center, a terminal window titled "Python 3.6.5 Shell" is open, showing a Python script being executed. The script is as follows:

```

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

```

The terminal output shows the script running successfully, printing "buzzer on" repeatedly. The taskbar at the bottom includes the Start button, a search bar, and several application icons. The system tray on the right shows the date and time as 09:29 AM on 24-09-2022, along with weather and network icons.

```
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()
```

```
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("\n\nhumidity")
        file.write(str(humidity))

    if temperature>30:
        print("Temperature High")
        print(temperature)
        file.write("\n\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
93Humidity High
82Temperature High
36Temperature High
57Humidity High
60Temperature High
68Humidity High
55

>>>

Ln 25 Col 0

Ln 20 Col 0