

Assignment -2

Python Programming

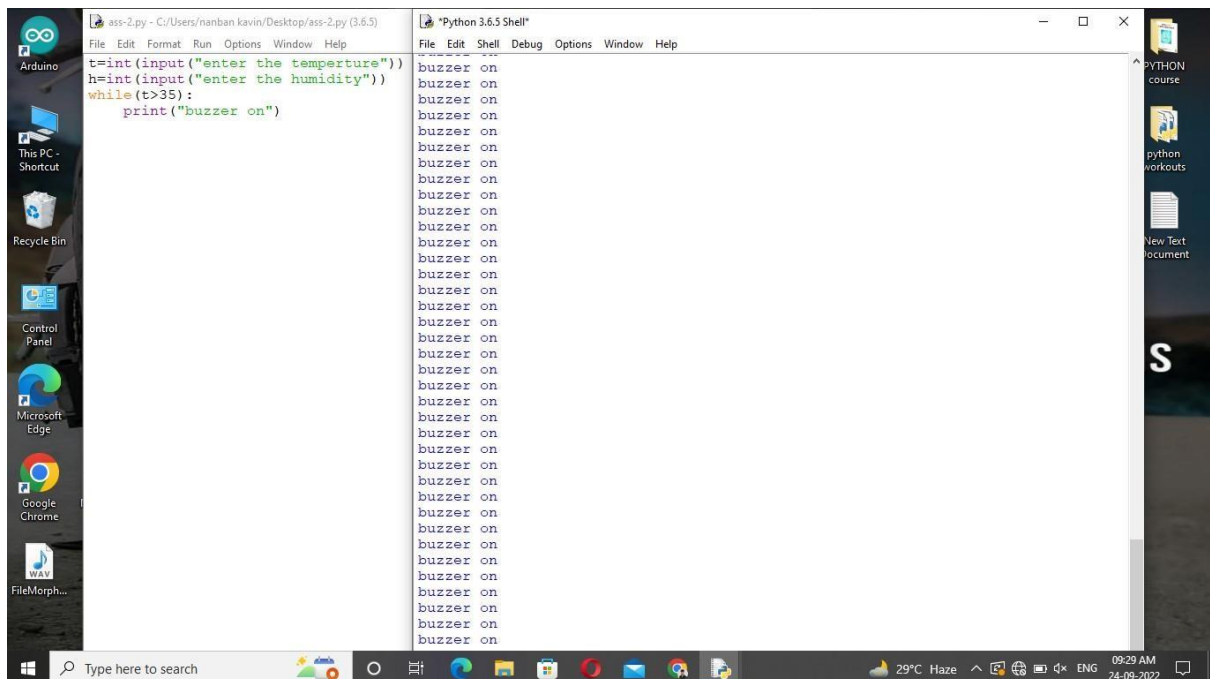
Assignment Date	26 September 2022
Student Name	Mr. Gokul.R
Student Roll Number	621319106020
Maximum Marks	2 Marks

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



The screenshot shows a Windows desktop environment. On the left, there is a taskbar with 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, there are icons for PYTHON course, python workouts, and New Text document. The main window is titled "Python 3.6.5 Shell" and contains the following code and output:

```
File Edit Format Run Options Window Help
t=int(input("enter the temperture"))
h=int(input("enter the humidity"))
while(t>35):
    print("buzzer on")
```

The output of the program is displayed in the shell window, showing the text "buzzer on" repeated 20 times.

```
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("\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 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
>>>
```