

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")
```

```

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

```