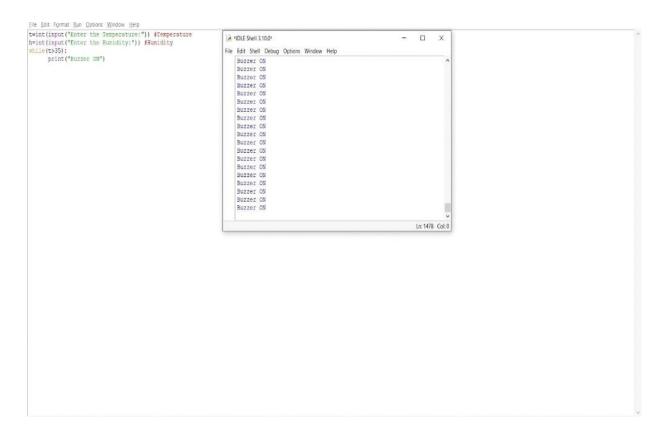
Assignment -2 Python Programming

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Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM
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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) $+1 \text{ if humidity>45: print("\n \n Humidity High") print(humidity)}$

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()

```
file Edit Format Run Options Window Help
import time
from random import randint
file=open("data.txt","a")
                                                                                            IDLE Shell 3.10.0
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 Edit Shell Debug Options Window Help

Fython 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 ===
              file.write("\nHumidity")
file.write(str(humidity))
                                                                                                  Temperature High
        if temperature>30:
               print("Temperature High")
print( temperature)
                                                                                                  Humidity High
file.write("\nTemperature")
    file.write(str(temperature))
    time.sleep(1)
file.close()
                                                                                                  Temperature High
                                                                                                  Temperature High
                                                                                                    Humidity High
                                                                                                  Temperature High
                                                                                                   Humidity High
                                                                                                                                                                                                                                Ln: 25 Col: 0
```