## Assignment -1

## **Python Programming**

Assignment Date	26 September 2022
Student Name	Ms. Kaviya S
Student Roll Number	621319106040
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.

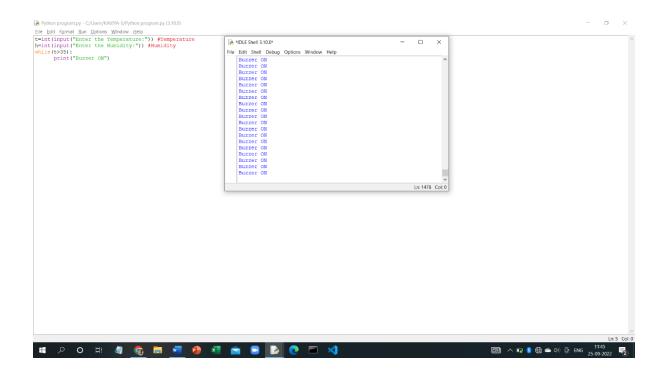
## Program:

t=int(input("Enter the Temperature:")) #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/KANIYA-S/Python Tea
File Edit Format Run Options Window Help
import time
from random import randint
file=open("data.txt","a")
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                                                  lDLE Shell 3.10.0
  e5 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

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 ===
        file.write("\nHumidity")
file.write(str(humidity))
                                                      Temperature High
    if temperature>30:
    print("Temperature High")
    print( temperature)
                                                      Humidity High
82
Temperature High
36
Temperature High
57
file.write("\nTemperature")
    file.write(str(temperature))
    time.sleep(1)
file.close()
                                                      Humidity High
60
Temperature High
68
                                                       Humidity High
                                                                                                                           Ln: 25 Col: 0
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