

## ASSIGNMENT-2

Assignment Date	24 SEP 2022
Student Name	ABBARNA.N
Student Roll Number	732419104001
Maximum marks	2marks

Question 1:

Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Solution:

```
from grovepi import*
from grove_rgb_lcd import*
from time import sleep
from math import is nan
import grovepi
buzzer =6
dht sensor_port = 7
dht _sensor_ type = 0
set RGB(0, 255, 0)
while True:
try:
[temp. hum] = dht(dht _sensor_ port, dht _sensor_ type)
Print ("temp=", temp, "c\t humidity =",hum"%")
if isnan (temp) is True or isnan (hum) is True:
raise True Error ('nan error')
```

```
t=str(temp)
h=str(hum)
SetText_norefresh("Temp: "+t+ "c\n" + "humidity:" +h+"%")
if temp >= 26:
    grovepi. Digital Write(buzzer,1)
    print("temperature is greater & =");
    time.sleep(1)
else:
    grovepi. Digital Write(buzzer,0)
except (IO Error , TypeError) as 0;
print(str(0))
set Text ("")
except keyboard Interrupt as 0;
grovepi. Digital Write(buzzer,0)
print(str(0))
```