

# MARTHANDAM COLLEGE OF ENGINEERING AND TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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### ASSIGNMENT-2

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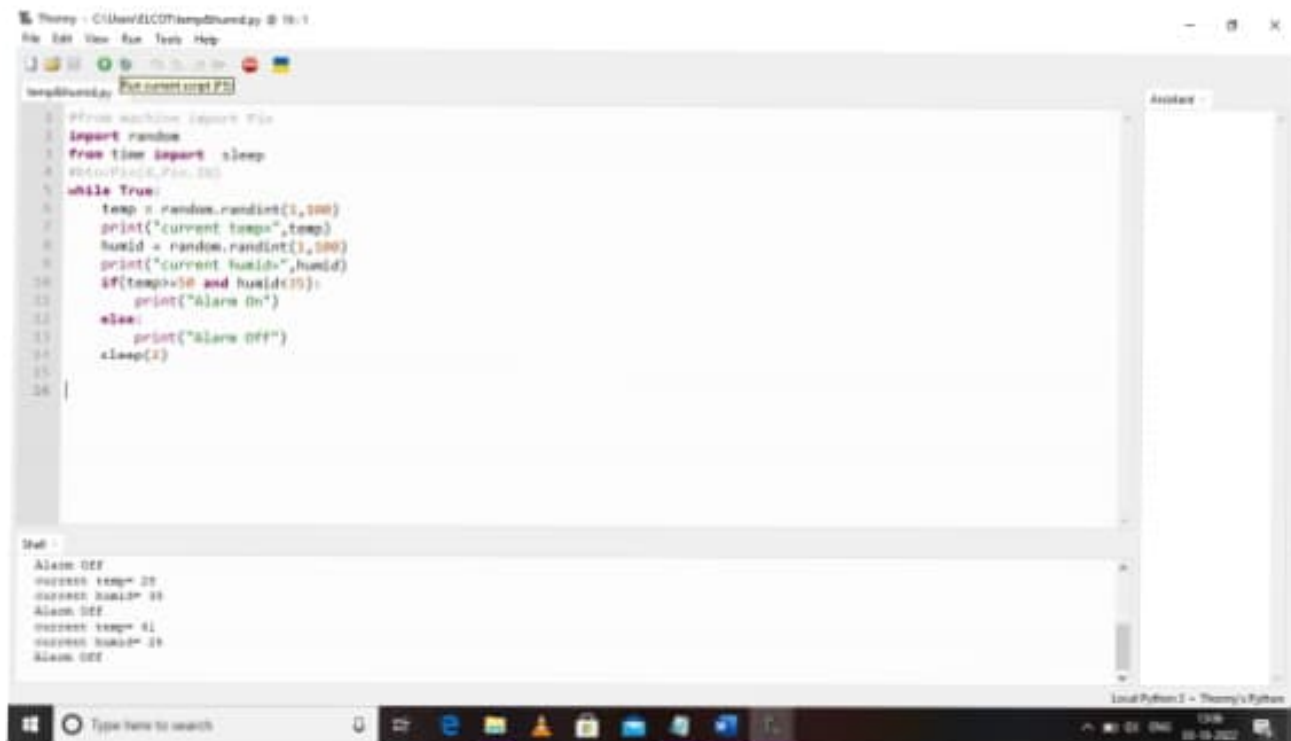
TEAM ID : PNT2022TMID51798

BUILD A PYTHON CODE, ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE

PROGRAM:PNT2022TMID51798

```
#from machine import Pin
import random
from time import sleep
#btn=Pin(4,Pin.IN)
while True:
    temp = random.randint(1,100)
    print("current temp=",temp)
    humid = random.randint(1,100)
    print("current humid=",humid)
    if(temp>=50 and humid<35):
        print("Alarm On")
    else:
        print("Alarm Off")
    sleep(2)
```

OUTPUT :



The screenshot shows a Python IDE window titled 'Therapy - C:\Users\ZICOT\tempHumid.py @ 18:1'. The code in the editor is as follows:

```
1 from machine import Pin
2 import random
3 from time import sleep
4 #GPIO Pin 16, Pin 20
5 while True:
6     temp = random.randint(1,100)
7     print("current temp=",temp)
8     humid = random.randint(1,100)
9     print("current humid=",humid)
10    if(temp>50 and humid<10):
11        print("Alarm On")
12    else:
13        print("Alarm Off")
14        sleep(2)
15
16
```

The output in the console window is:

```
Alarm Off
current temp= 25
current humid= 99
Alarm Off
current temp= 61
current humid= 29
Alarm Off
```

The IDE interface includes a menu bar (File, Edit, View, Run, Tools, Help), a toolbar, and a Windows taskbar at the bottom with various application icons and a system clock showing 1:36 on 04-10-2022.