

MARTHANDAM COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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ASSIGNMENT-2

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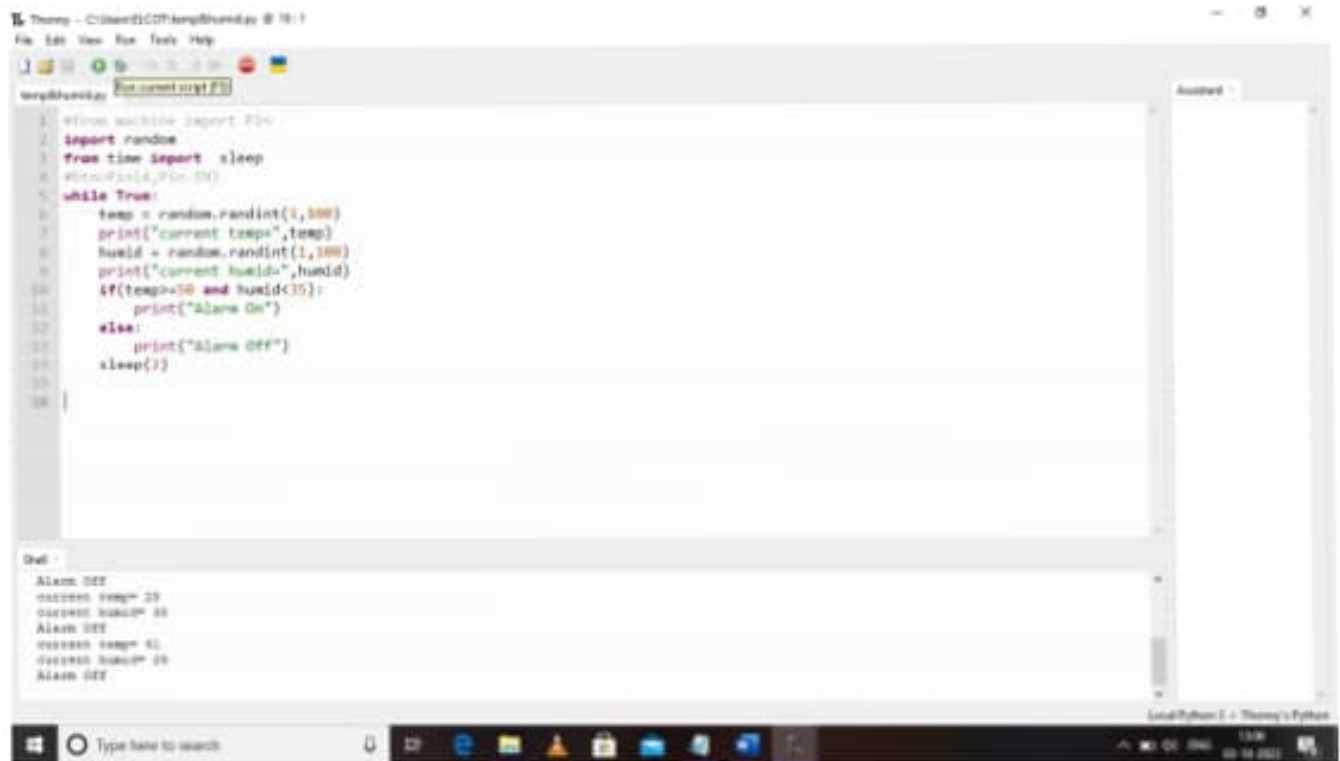
TEAM ID : PNT2022TMID51798

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

PROGRAM:

```
#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 'Thompy - C:\Users\COFF\temp\thompy @ 18:1'. The menu bar includes 'File', 'Edit', 'View', 'Run', 'Tools', and 'Help'. The toolbar contains icons for file operations and execution. The main editor displays a Python script for a simulated alarm system. The script imports 'random' and 'time', and uses a 'while True' loop to generate random temperature and humidity values. It prints these values and checks if the temperature is above 30 and humidity is below 35. If true, it prints 'Alarm On'; otherwise, it prints 'Alarm Off' and sleeps for 2 seconds. A 'Devil' console window at the bottom shows the output of the script, displaying alternating 'Alarm Off' and 'Alarm On' messages with corresponding temperature and humidity values. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system clock (13:38, 03-14-2022).

```
1 #from watchdog import File
2 import random
3 from time import sleep
4 import sys, time
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>30 and humid<35):
11        print("Alarm On")
12    else:
13        print("Alarm Off")
14        sleep(2)
```

Devil

```
Alarm Off
current temp= 29
current humid= 35
Alarm Off
current temp= 41
current humid= 29
Alarm Off
```