

ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY
KANNYAKUMARI
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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ASSIGNMENT-2

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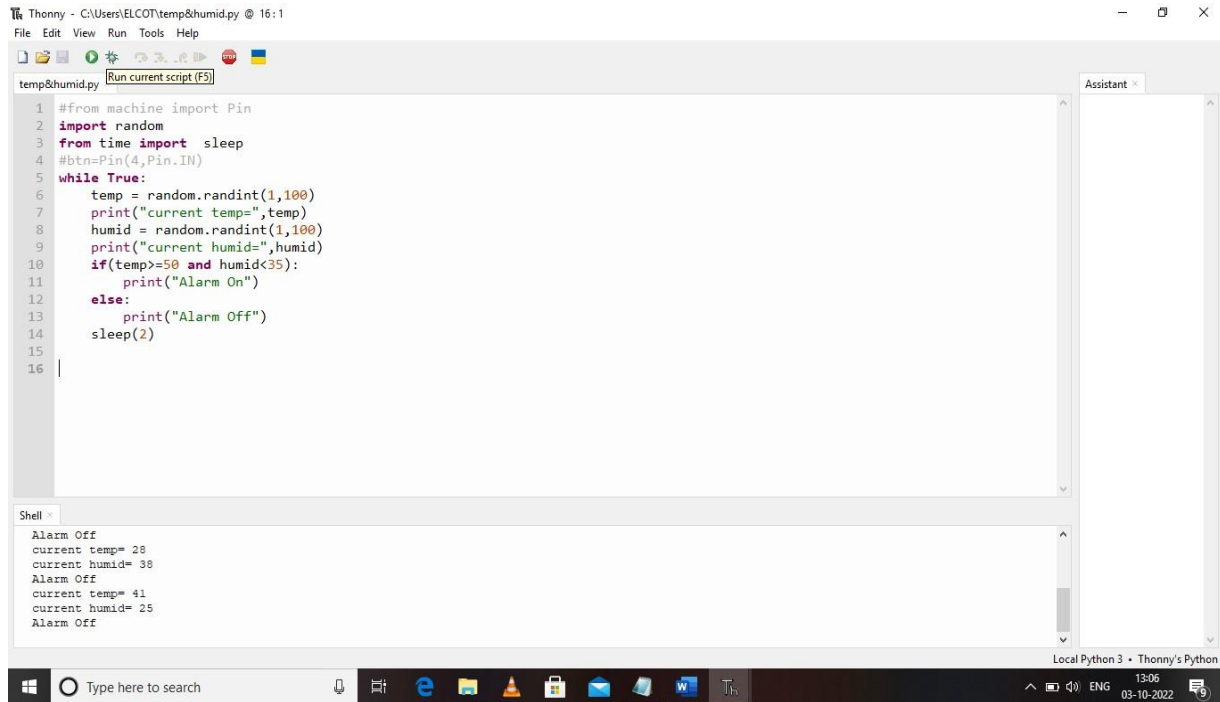
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BUILD A PYTHON CODE ,ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A
CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE

PROGRAM:

```
#from machine import Pin
import random
import 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 the Thonny Python IDE interface. The main editor window displays a Python script named 'temp&humid.py'. The script imports 'Pin' from the 'machine' module, 'random' from the 'random' module, and 'sleep' from the 'time' module. It initializes a button 'btn' as 'Pin(4, Pin.IN)'. A 'while True' loop generates random temperature and humidity values (1-100), prints them, and checks if the temperature is greater than or equal to 50 and humidity is less than 35. If true, it prints 'Alarm On'; otherwise, it prints 'Alarm Off' and sleeps for 2 seconds. The bottom panel shows the 'Shell' output with the following text: 'Alarm Off', 'current temp= 28', 'current humid= 38', 'Alarm Off', 'current temp= 41', 'current humid= 25', 'Alarm Off'. The right sidebar contains an 'Assistant' panel. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date '03-10-2022' and time '13:06'.

```
1 #from machine import Pin
2 import random
3 from time import sleep
4 #btn=Pin(4,Pin.IN)
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<35):
11        print("Alarm On")
12    else:
13        print("Alarm Off")
14        sleep(2)
15
16
```

Alarm Off
current temp= 28
current humid= 38
Alarm Off
current temp= 41
current humid= 25
Alarm Off