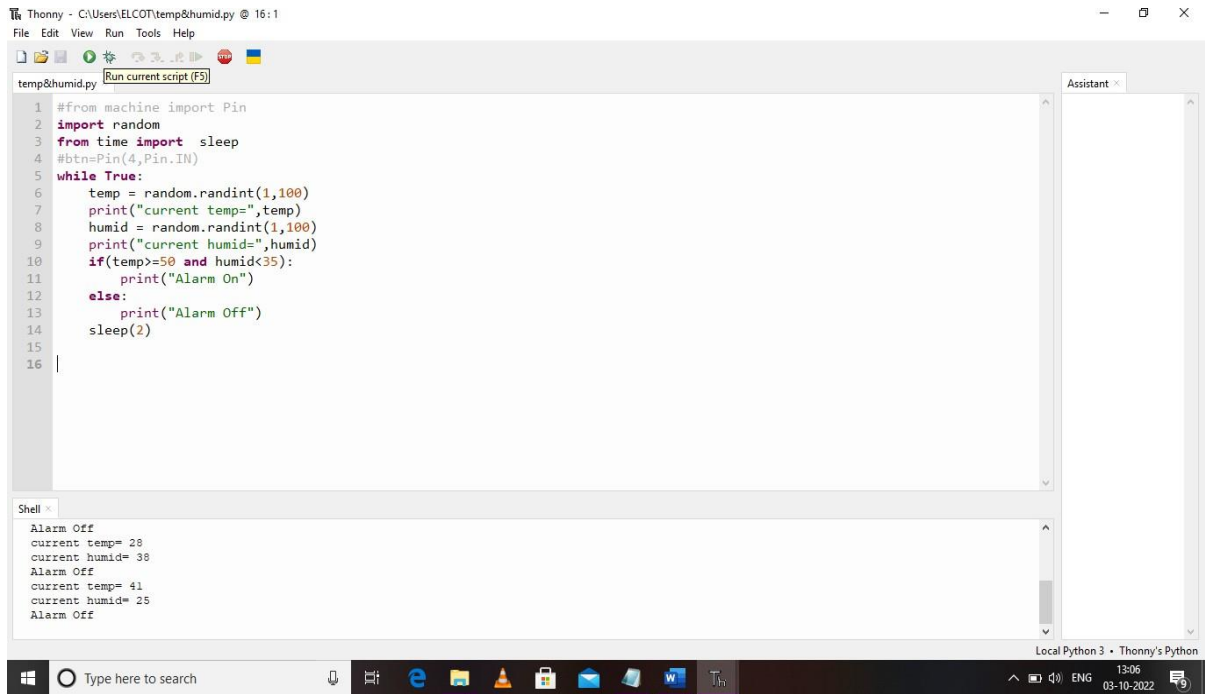


BUILD A PYTHON CODE ,ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE

PROGRAM:

```
#from machine import Pin
import random
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 the Thonny IDE interface. The main editor window displays a Python script named 'temp&humid.py'. The script imports 'Pin' from 'machine', 'random' from 'random', and 'sleep' from 'time'. It sets a button pin (4) and enters a 'while True' loop. Inside the loop, it generates random temperature and humidity values, 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 'Shell' window at the bottom shows the output of the script, displaying 'Alarm Off' and the current temperature and humidity values (28, 38, 41, 25) in a repeating pattern. The 'Assistant' window is empty. The Windows taskbar at the bottom shows the search bar and various application icons. The system tray in the bottom right corner displays the date and time (13:06, 03-10-2022).

```
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
```

Shell

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