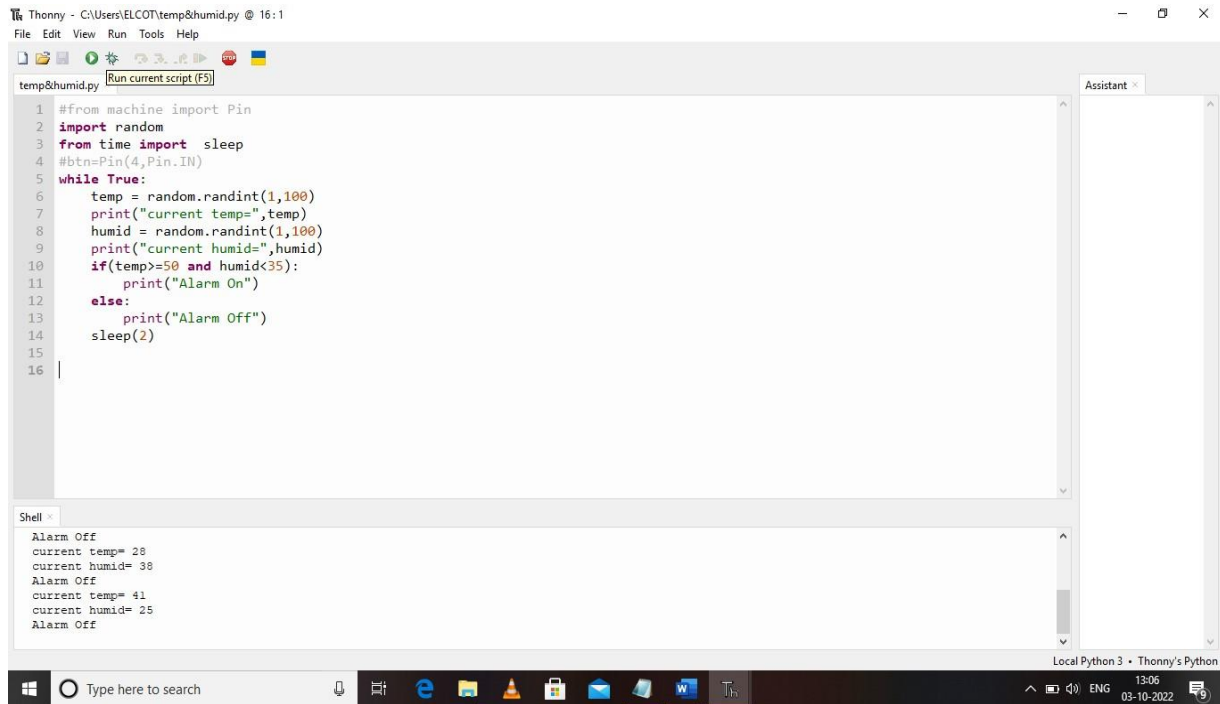


BULID A PYTHON CODE ,ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE

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 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 50 or higher and humidity is below 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 random values for temperature and humidity. The Windows taskbar at the bottom shows the system clock as 13:06 on 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
```