

## Assignment 2

**Build a python code assume u get a 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):

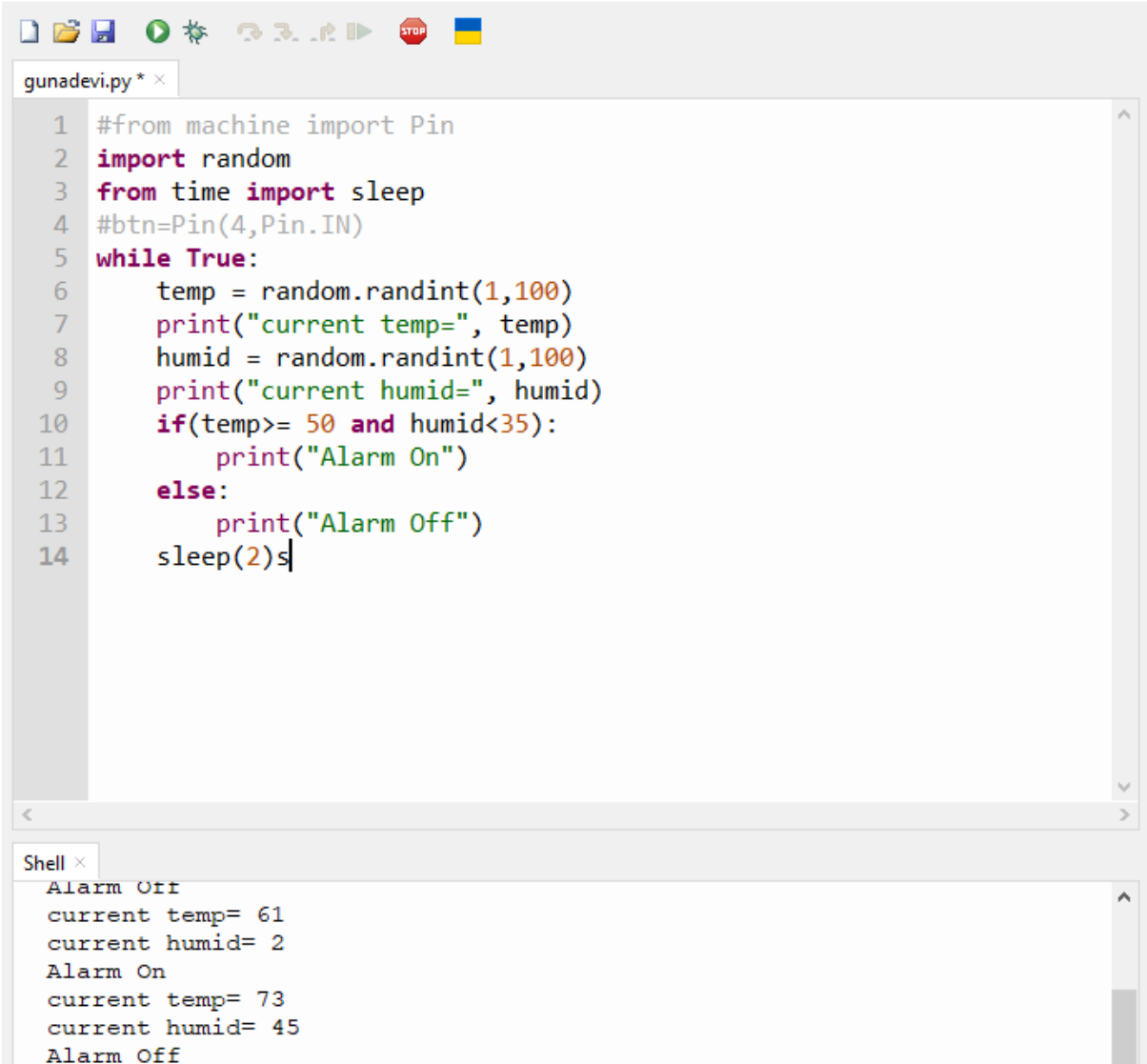
        print("Alarm On")

    else:

        print("Alarm Off")

    sleep(2)
```

**O/P**



The screenshot shows the Thonny Python IDE interface. The top menu bar includes 'File', 'Edit', 'View', 'Run', 'Tools', and 'Help'. Below the menu is a toolbar with icons for file operations, running, and debugging. The main editor window displays a Python script named 'gunadevi.py' with the following code:

```
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)s
```

Below the editor is a 'Shell' window showing the output of the script's execution:

```
Alarm Off
current temp= 61
current humid= 2
Alarm On
current temp= 73
current humid= 45
Alarm Off
```