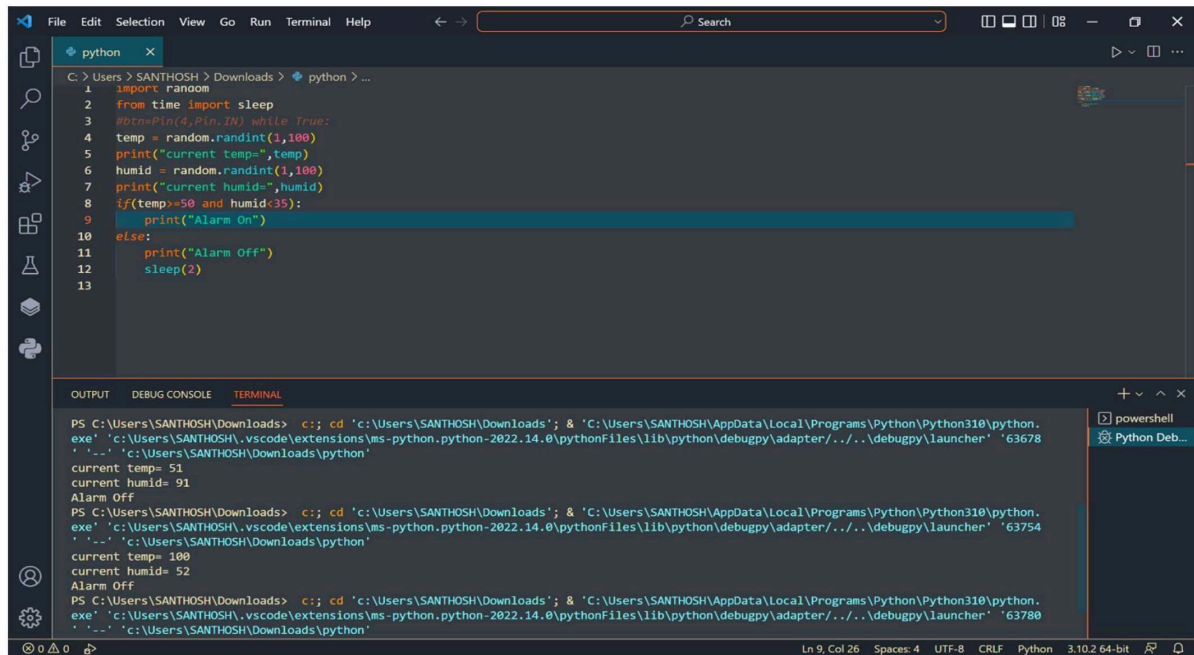


BUILD A PYTHON CODE, ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE.

### PROGRAM:

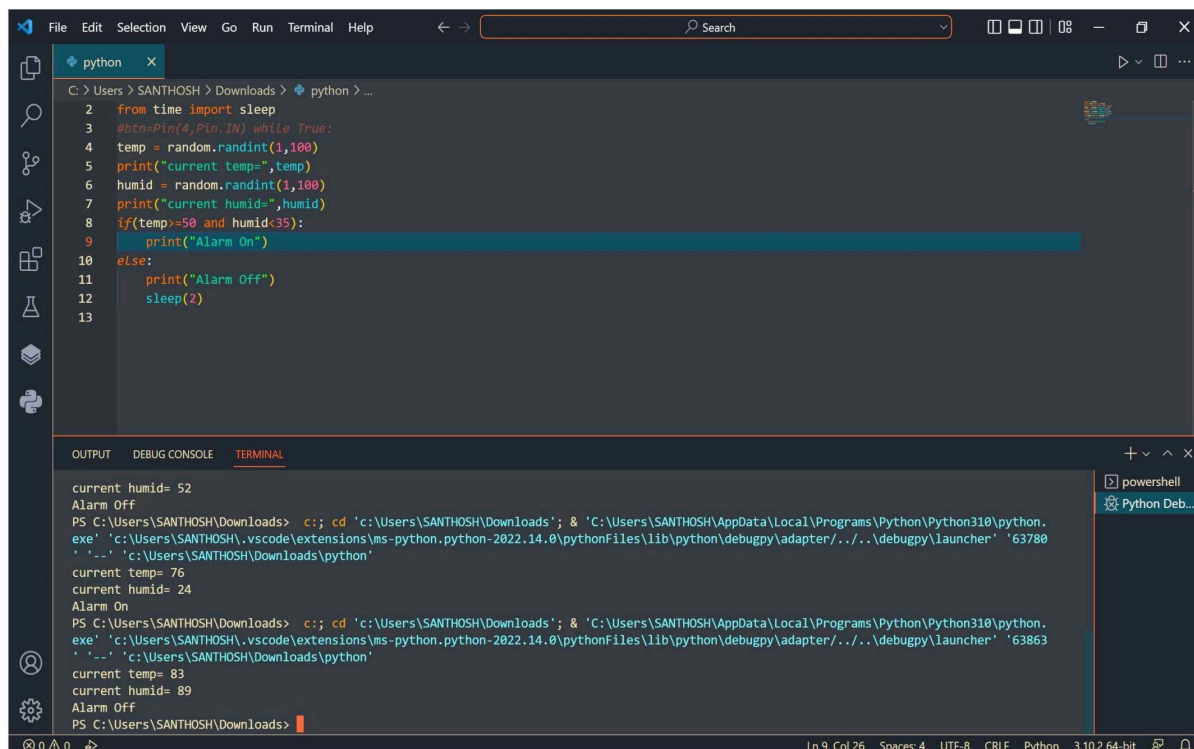
```
import random from
time import sleep
#btn=Pin(4,Pin.IN) while True: temp
= random.randint(1,100)
print("current temp=",temp)    humid
= random.randint(1,100)
print("current humid=",humid)
if(temp>=50 and humid<35):
    print("Alarm On")    else:
    print("Alarm Off")
sleep(2)
```

## OUTPUT:



```
File Edit Selection View Go Run Terminal Help
python X
C:\Users\SANTHOSH> Downloads > python > ...
1 import random
2 from time import sleep
3 #btn=Pin(4,Pin.IN) while True:
4 temp = random.randint(1,100)
5 print("current temp=",temp)
6 humid = random.randint(1,100)
7 print("current humid=",humid)
8 if(temp>=50 and humid<35):
9     print("Alarm On")
10 else:
11     print("Alarm Off")
12     sleep(2)
13

OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\SANTHOSH\Downloads> c:\; cd 'c:\Users\SANTHOSH\Downloads'; & 'C:\Users\SANTHOSH\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\SANTHOSH\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63678' '...' 'c:\Users\SANTHOSH\Downloads\python'
current temp= 51
current humid= 91
Alarm Off
PS C:\Users\SANTHOSH\Downloads> c:\; cd 'c:\Users\SANTHOSH\Downloads'; & 'C:\Users\SANTHOSH\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\SANTHOSH\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63754' '...' 'c:\Users\SANTHOSH\Downloads\python'
current temp= 100
current humid= 52
Alarm Off
PS C:\Users\SANTHOSH\Downloads> c:\; cd 'c:\Users\SANTHOSH\Downloads'; & 'C:\Users\SANTHOSH\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\SANTHOSH\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63780' '...' 'c:\Users\SANTHOSH\Downloads\python'
```



```
File Edit Selection View Go Run Terminal Help
python X
C:\Users\SANTHOSH> Downloads > python > ...
2 from time import sleep
3 #btn=Pin(4,Pin.IN) while True:
4 temp = random.randint(1,100)
5 print("current temp=",temp)
6 humid = random.randint(1,100)
7 print("current humid=",humid)
8 if(temp>=50 and humid<35):
9     print("Alarm On")
10 else:
11     print("Alarm Off")
12     sleep(2)
13

OUTPUT DEBUG CONSOLE TERMINAL
current humid= 52
Alarm Off
PS C:\Users\SANTHOSH\Downloads> c:\; cd 'c:\Users\SANTHOSH\Downloads'; & 'C:\Users\SANTHOSH\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\SANTHOSH\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63780' '...' 'c:\Users\SANTHOSH\Downloads\python'
current temp= 76
current humid= 24
Alarm On
PS C:\Users\SANTHOSH\Downloads> c:\; cd 'c:\Users\SANTHOSH\Downloads'; & 'C:\Users\SANTHOSH\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\SANTHOSH\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63863' '...' 'c:\Users\SANTHOSH\Downloads\python'
current temp= 83
current humid= 89
Alarm Off
PS C:\Users\SANTHOSH\Downloads>
```