

# ASSIGNMENT-2

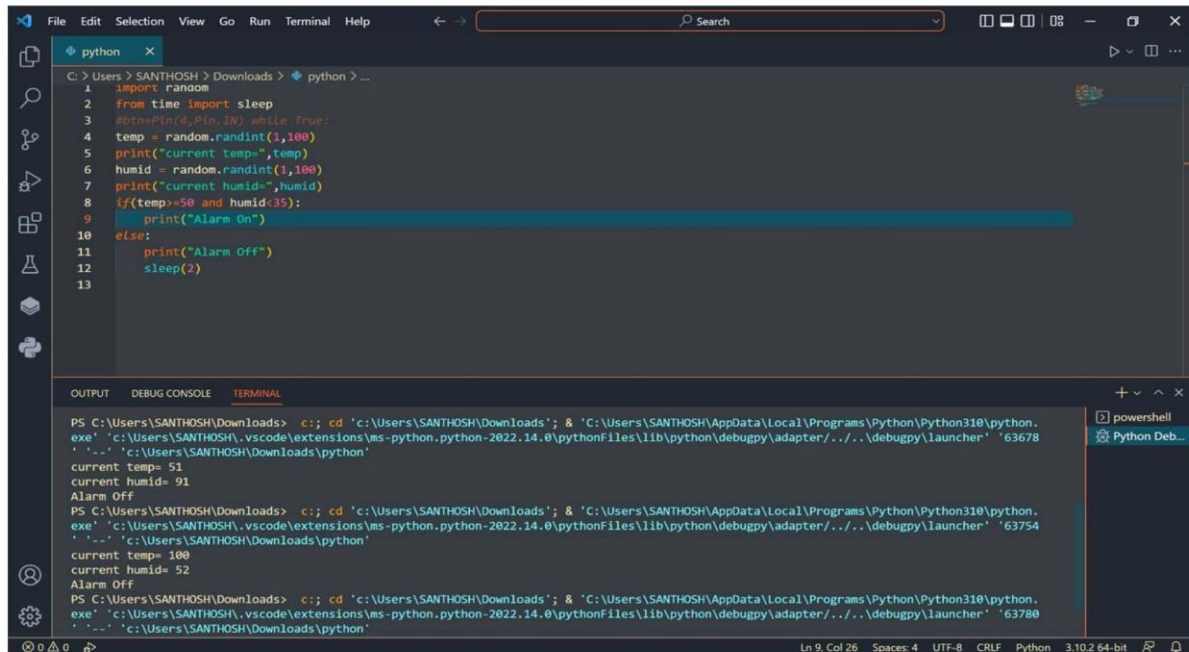
TEAM ID :PNT2022TMID06078

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)
```

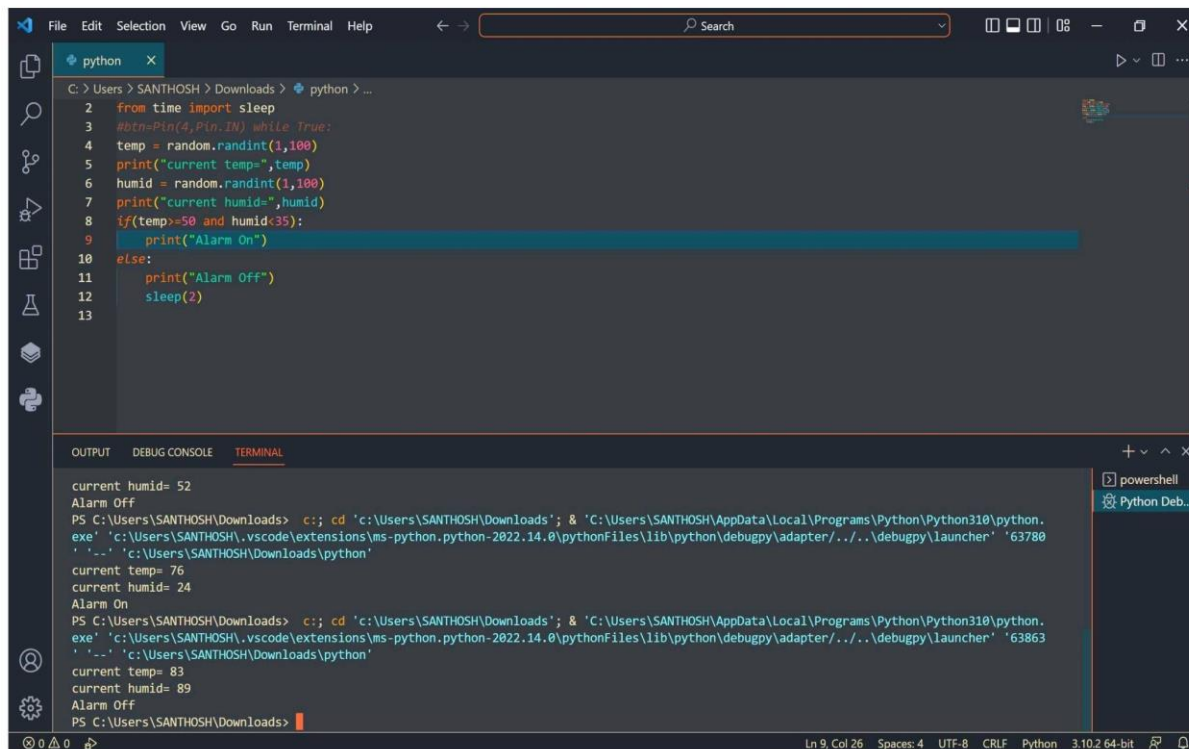
## OUTPUT:



The screenshot shows the VS Code editor with a Python file named 'python' open. The code is a simple loop that generates random temperature and humidity values and prints them. A conditional statement checks if the temperature is greater than or equal to 50 and the humidity is less than 35. If true, it prints 'Alarm On'; otherwise, it prints 'Alarm Off' and sleeps for 2 seconds.

```
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
```

The terminal output shows the execution of the script. It displays the current temperature and humidity values, and the 'Alarm Off' message. The terminal also shows the command used to run the script: `PS C:\Users\SANTHOSH\Downloads> 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'`



This screenshot shows the continuation of the terminal output from the previous screenshot. The script has generated new random values for temperature and humidity, and the terminal shows the 'Alarm On' message. The terminal also shows the command used to run the script: `PS C:\Users\SANTHOSH\Downloads> 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'`