

PAAVAI COLLEGE OF ENGINEERING

NAMAKKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IBM ASSIGNMENT-2

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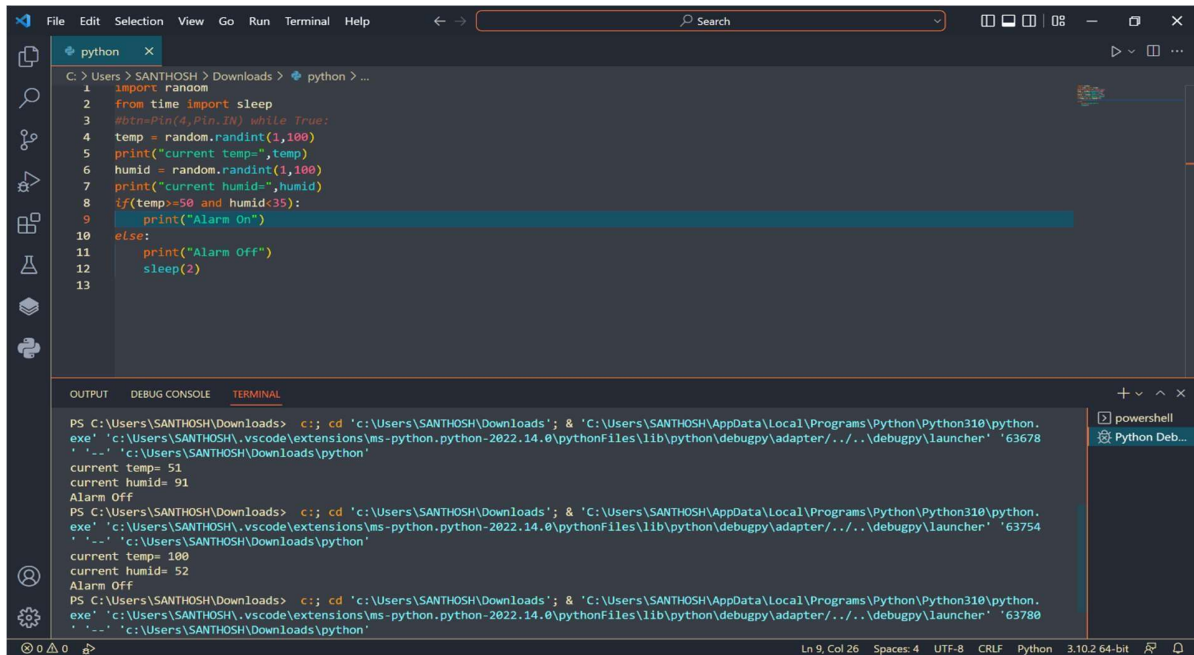
SANJAY KUMAR R

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 a VS Code editor window with a Python file named 'python' open. The code is a simple loop that generates random temperature and humidity values and prints them. It includes an 'if' statement to trigger an 'Alarm On' message when temperature is 50 or higher and humidity is 35 or lower. The terminal output shows the script being executed, with the current directory set to 'C:\Users\SANTHOSH\Downloads'. The output displays the current temperature and humidity values, followed by 'Alarm Off'.

```
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
```

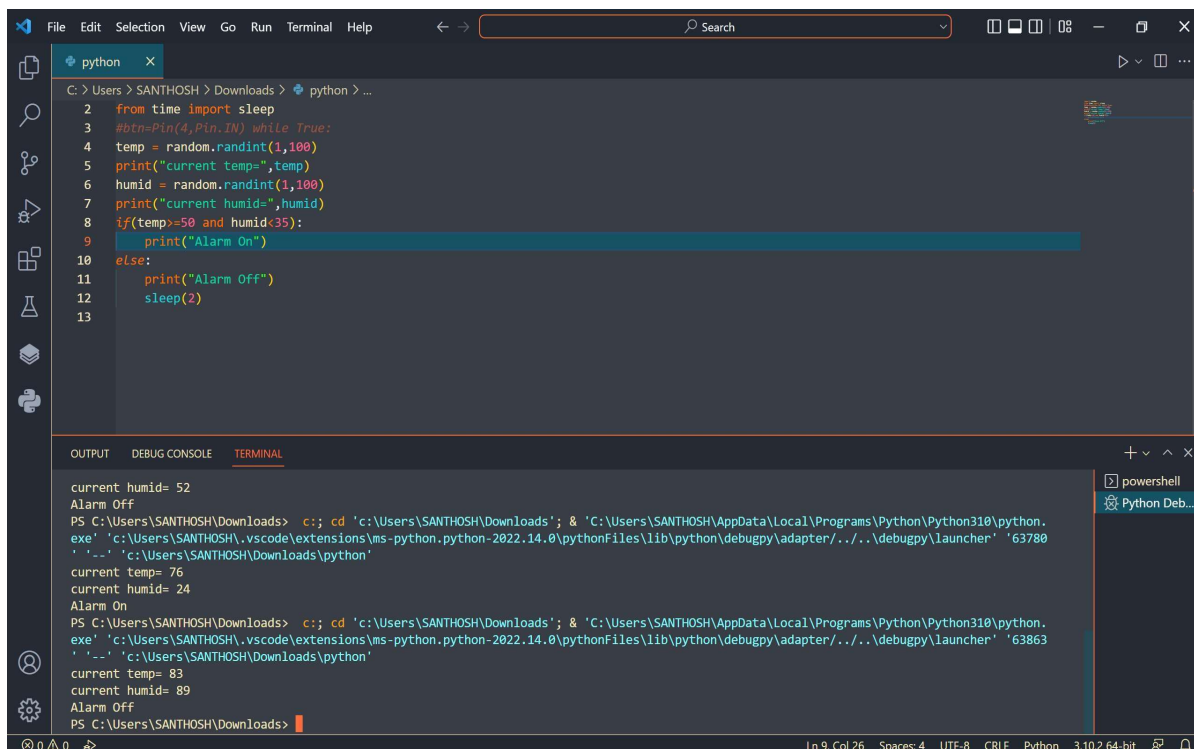
PS C:\Users\SANTHOSH\Downloads> c:; cd 'c:\Users\SANTHOSH\Downloads'; & 'C:\Users\SANTHOSH\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\SANTHOSH\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63678' '...' 'c:\Users\SANTHOSH\Downloads\python'

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'



The screenshot shows the same VS Code editor window with the Python script. The terminal output continues from the previous screenshot, showing the current temperature and humidity values, followed by 'Alarm On'.

```
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>