

ASSIGNMENT 2:

```
import random

from time import *

flag=True

while(flag):

    temp = random.randint(0,50)

    humi = random.randint(10,50)

    if temp>45 and humi<30:

        print("Ambient Temperature =",temp,"Ambient Humidity =",humi)

        print("-----ALARM ON-----")

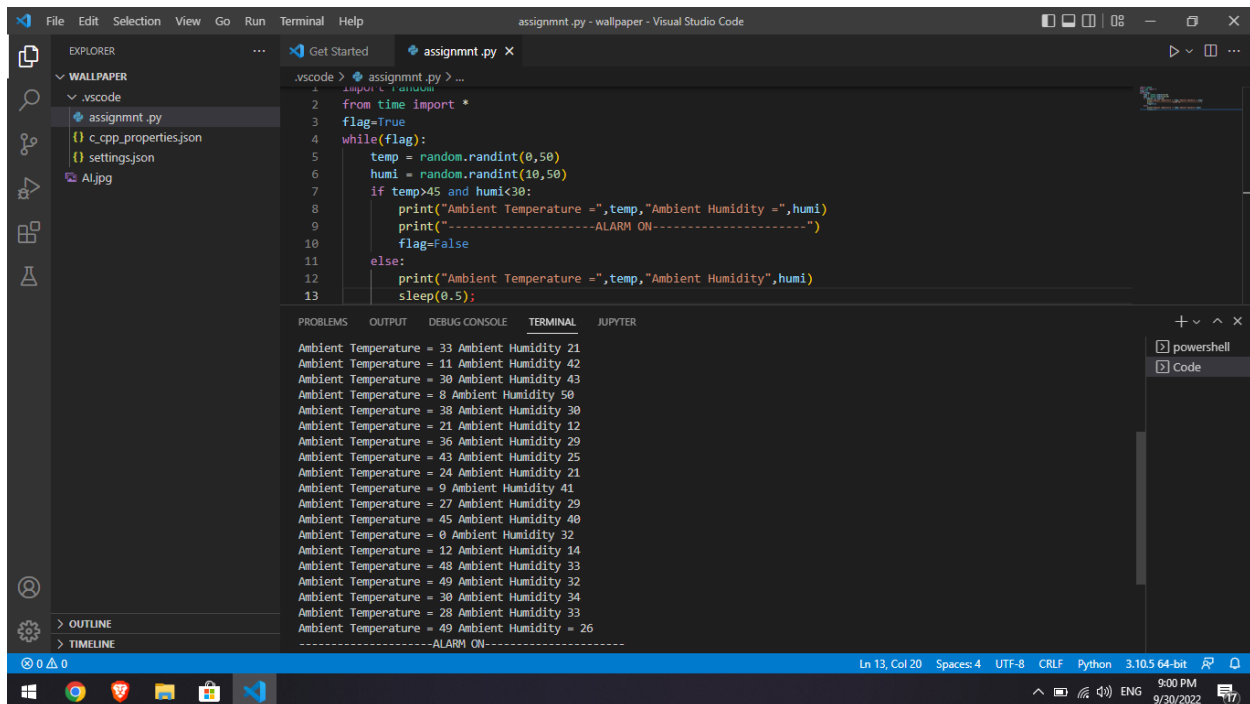
        flag=False

    else:

        print("Ambient Temperature =",temp,"Ambient Humidity",humi)

        sleep(0.5);
```

OUTPUT:



The screenshot shows a Visual Studio Code editor window with a file named `assignmnt.py`. The code in the editor is a Python script that generates random ambient temperature and humidity values. It uses a `while` loop with a `flag` variable. If the temperature is greater than 45 and humidity is less than 30, it prints the values and an alarm message, then sets the flag to `False`. Otherwise, it prints the values and sleeps for 0.5 seconds. The terminal at the bottom shows the output of the script, displaying multiple lines of random temperature and humidity values. The last line shows the alarm message: `-----ALARM ON-----`. The status bar at the bottom indicates the file is at line 13, column 20, using UTF-8 encoding, and the Python interpreter is set to 3.10.5 64-bit.

```
.vscode > assignmnt.py > ...
1 import random
2 from time import *
3 flag=True
4 while(flag):
5     temp = random.randint(0,50)
6     humi = random.randint(10,50)
7     if temp>45 and humi<30:
8         print("Ambient Temperature =",temp,"Ambient Humidity =",humi)
9         print("-----ALARM ON-----")
10        flag=False
11    else:
12        print("Ambient Temperature =",temp,"Ambient Humidity",humi)
13        sleep(0.5);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
Ambient Temperature = 33 Ambient Humidity 21
Ambient Temperature = 11 Ambient Humidity 42
Ambient Temperature = 30 Ambient Humidity 43
Ambient Temperature = 8 Ambient Humidity 50
Ambient Temperature = 38 Ambient Humidity 30
Ambient Temperature = 21 Ambient Humidity 12
Ambient Temperature = 36 Ambient Humidity 29
Ambient Temperature = 43 Ambient Humidity 25
Ambient Temperature = 24 Ambient Humidity 21
Ambient Temperature = 9 Ambient Humidity 41
Ambient Temperature = 27 Ambient Humidity 29
Ambient Temperature = 45 Ambient Humidity 40
Ambient Temperature = 0 Ambient Humidity 32
Ambient Temperature = 12 Ambient Humidity 14
Ambient Temperature = 48 Ambient Humidity 33
Ambient Temperature = 49 Ambient Humidity 32
Ambient Temperature = 30 Ambient Humidity 34
Ambient Temperature = 28 Ambient Humidity 33
Ambient Temperature = 49 Ambient Humidity = 26
-----ALARM ON-----
```

Ln 13, Col 20 Spaces: 4 UTF-8 CRLF Python 3.10.5 64-bit 9:00 PM 9/30/2022