

Mega Project 2 - Matrix Manipulation

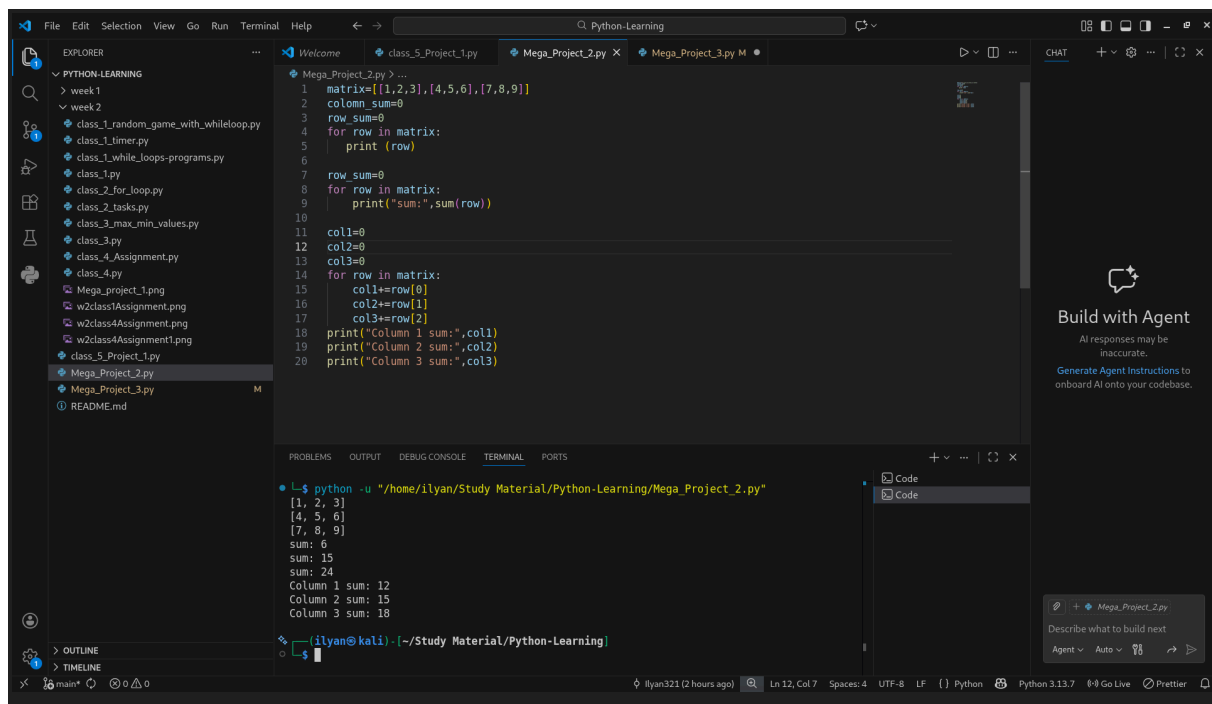
Python code:

```
matrix=[[1,2,3],[4,5,6],[7,8,9]]
column_sum=0
row_sum=0
for row in matrix:
    print (row)

row_sum=0
for row in matrix:
    print("sum:",sum(row))

col1=0
col2=0
col3=0
for row in matrix:
    col1+=row[0]
    col2+=row[1]
    col3+=row[2]
print("Column 1 sum:",col1)
print("Column 2 sum:",col2)
print("Column 3 sum:",col3)
```

Output:



The screenshot shows a VS Code editor with the following components:

- EXPLORER:** A file tree on the left showing a project structure with folders for 'PYTHON-LEARNING' (containing 'week1' and 'week2') and individual files like 'class_1_random_game_with_whileloop.py', 'class_1_timer.py', 'class_1_while_loops-programs.py', 'class_1.py', 'class_2_for_loop.py', 'class_2_tasks.py', 'class_3_max_min_values.py', 'class_3.py', 'class_4_Assignment.py', 'class_4.py', 'Mega_project.png', 'w2class1Assignment.png', 'w2class4Assignment.png', 'w2class4Assignment1.png', 'class_5_Project_1.py', 'Mega_Project_2.py', 'Mega_Project_3.py', and 'README.md'.
- EDITOR:** The main workspace shows the code for 'Mega_Project_2.py', which is identical to the code provided in the previous block.
- TERMINAL:** The bottom panel shows the output of running the code. The output is as follows:

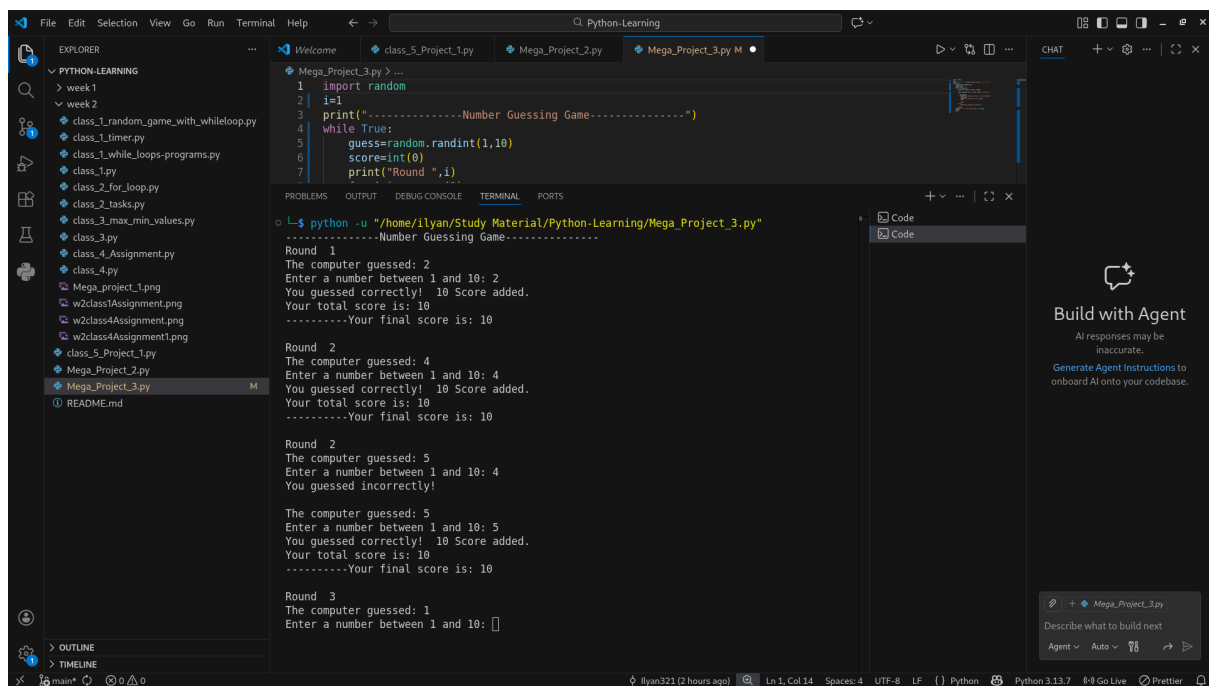
```
• l-$ python -u "/home/ilyan/Study Material/Python-Learning/Mega_Project_2.py"
[1, 2, 3]
[4, 5, 6]
[7, 8, 9]
sum: 6
sum: 15
sum: 24
Column 1 sum: 12
Column 2 sum: 15
Column 3 sum: 18
```
- CHAT:** On the right side, there is a 'CHAT' panel with a 'Build with Agent' section. It includes a message: 'AI responses may be inaccurate. Generate AI Instructions to onboard AI onto your codebase.' and a 'Describe what to build next' input field.

Mega Project 3 - Number Guessing With Scores

Python code:

```
import random
i=1
print("-----Number Guessing Game-----")
while True:
    guess=random.randint(1,10)
    score=int(0)
    print("Round ",i)
    for i in range (3):
        print("The computer guessed:",guess)
        num=int(input("Enter a number between 1 and 10: "))
        if num==guess:
            print("You guessed correctly! 10 Score added.")
            score+=10
            print("Your total score is:",score)
            i+=1
            break
        else:
            print("You guessed incorrectly!")
            print()
    print("-----Your final score is:",score)
    print()
    i+=1
```

Output:



```
Python-Learning
Welcome class_5_Project_1.py Mega_Project_2.py Mega_Project_3.py M
Mega_Project_3.py > ...
1 import random
2 i=1
3 print("-----Number Guessing Game-----")
4 while True:
5     guess=random.randint(1,10)
6     score=int(0)
7     print("Round ",i)
8
9     for i in range (3):
10         print("The computer guessed:",guess)
11         num=int(input("Enter a number between 1 and 10: "))
12         if num==guess:
13             print("You guessed correctly! 10 Score added.")
14             score+=10
15             print("Your total score is:",score)
16             i+=1
17             break
18         else:
19             print("You guessed incorrectly!")
20             print()
21     print("-----Your final score is:",score)
22     print()
23     i+=1
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
o L-$ python -u "/home/ilyan/Study Material/Python-Learning/Mega_Project_3.py"
-----Number Guessing Game-----
Round 1
The computer guessed: 2
Enter a number between 1 and 10: 2
You guessed correctly! 10 Score added.
Your total score is: 10
-----Your final score is: 10

Round 2
The computer guessed: 4
Enter a number between 1 and 10: 4
You guessed correctly! 10 Score added.
Your total score is: 10
-----Your final score is: 10

Round 2
The computer guessed: 5
Enter a number between 1 and 10: 4
You guessed incorrectly!

The computer guessed: 5
Enter a number between 1 and 10: 5
You guessed correctly! 10 Score added.
Your total score is: 10
-----Your final score is: 10

Round 3
The computer guessed: 1
Enter a number between 1 and 10: 
```

Build with Agent

AI responses may be inaccurate.

Generate Agent Instructions to onboard AI onto your codebase.

+ Mega_Project_3.py

Describe what to build next

Agent Auto v8 Go Live

