

# **ASSIGNMENT 2.2**

**on**

**Numpy**

**Submitted by:**

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**and**

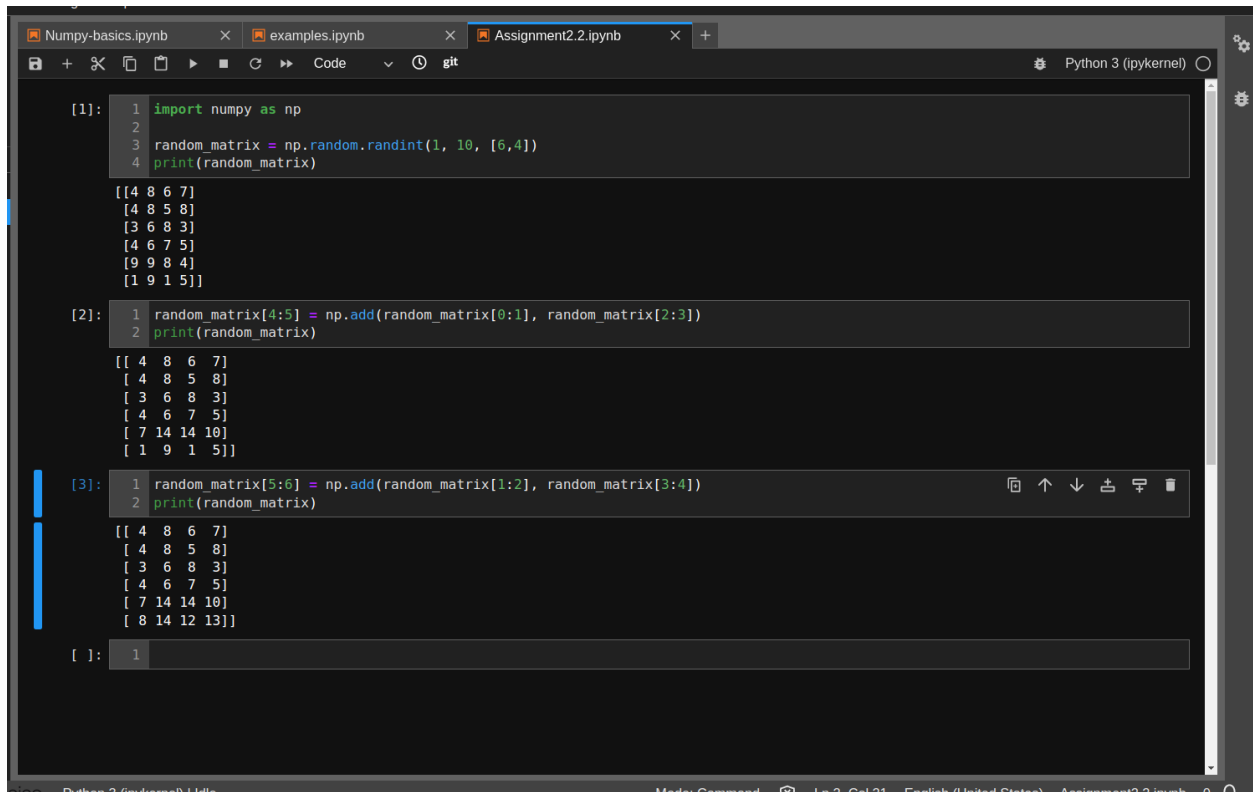
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## Task 01: Build a 6x4 matrix of random numbers.

Build a 6x4 matrix of random numbers.

Using slicing, replace rows 5-6 of the matrix so that the 5th row becomes a sum of the 1st and the 3rd row, and the 6th row becomes a sum of the 2nd and the 4th one.



The screenshot shows a Jupyter Notebook with three code cells. The first cell creates a 6x4 matrix of random integers. The second cell updates the 5th row (index 4) to be the sum of the 1st and 3rd rows. The third cell updates the 6th row (index 5) to be the sum of the 2nd and 4th rows. The notebook interface includes a top bar with file tabs, a toolbar, and a status bar at the bottom.

```
[1]: 1 import numpy as np
      2
      3 random_matrix = np.random.randint(1, 10, [6,4])
      4 print(random_matrix)

[[4 8 6 7]
 [4 8 5 8]
 [3 6 8 3]
 [4 6 7 5]
 [9 9 8 4]
 [1 9 1 5]]

[2]: 1 random_matrix[4:5] = np.add(random_matrix[0:1], random_matrix[2:3])
      2 print(random_matrix)

[[ 4  8  6  7]
 [ 4  8  5  8]
 [ 3  6  8  3]
 [ 4  6  7  5]
 [ 7 14 14 10]
 [ 1  9  1  5]]

[3]: 1 random_matrix[5:6] = np.add(random_matrix[1:2], random_matrix[3:4])
      2 print(random_matrix)

[[ 4  8  6  7]
 [ 4  8  5  8]
 [ 3  6  8  3]
 [ 4  6  7  5]
 [ 7 14 14 10]
 [ 8 14 12 13]]

[ ]: 1
```