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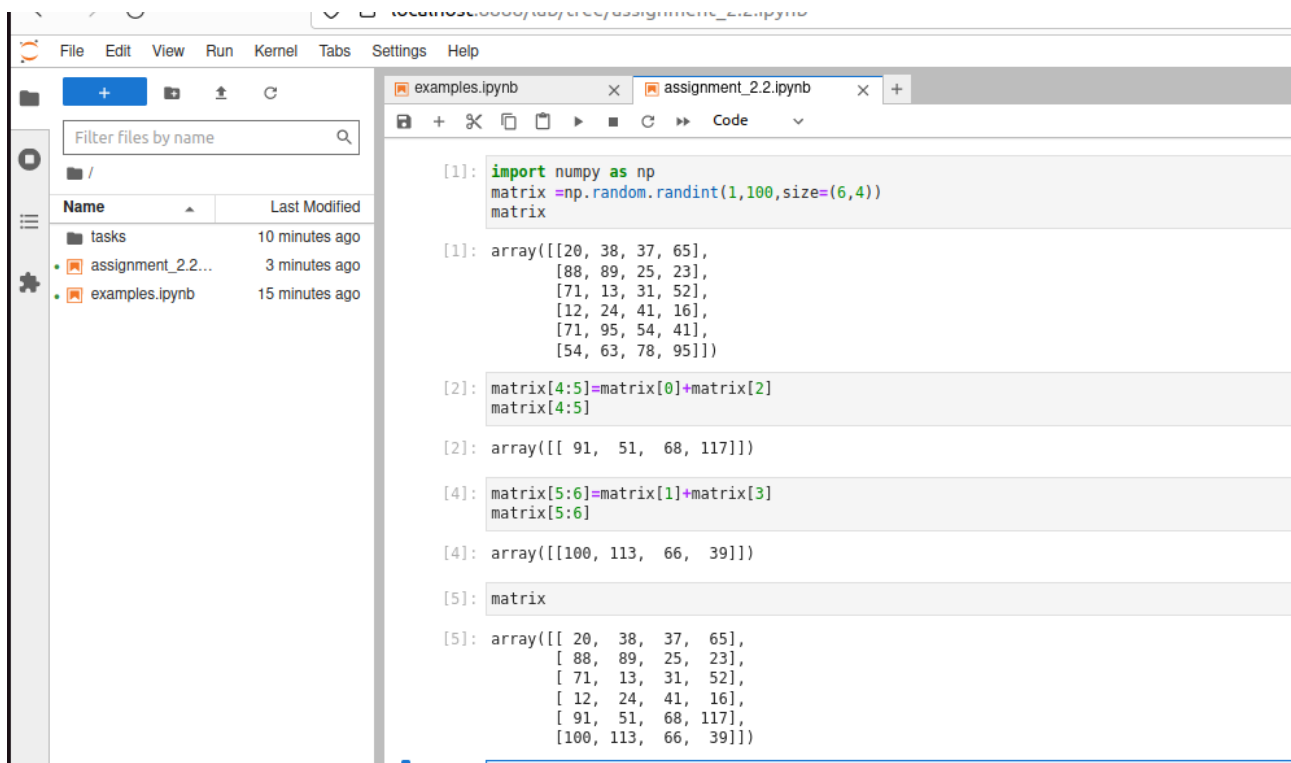
**&**

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## ASSIGNMENT 2.2

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 two tabs: 'examples.ipynb' and 'assignment\_2.2.ipynb'. The 'assignment\_2.2.ipynb' tab is active, displaying the following code and output:

```
[1]: import numpy as np
matrix = np.random.randint(1,100,size=(6,4))
matrix
```

[1]: array([[20, 38, 37, 65],  
[88, 89, 25, 23],  
[71, 13, 31, 52],  
[12, 24, 41, 16],  
[71, 95, 54, 41],  
[54, 63, 78, 95]])

```
[2]: matrix[4:5]=matrix[0]+matrix[2]
matrix[4:5]
```

[2]: array([[ 91, 51, 68, 117]])

```
[4]: matrix[5:6]=matrix[1]+matrix[3]
matrix[5:6]
```

[4]: array([[100, 113, 66, 39]])

```
[5]: matrix
```

[5]: array([[ 20, 38, 37, 65],  
[ 88, 89, 25, 23],  
[ 71, 13, 31, 52],  
[ 12, 24, 41, 16],  
[ 91, 51, 68, 117],  
[100, 113, 66, 39]])

## EXPLANATION

**Step 1:** we create a matrix of random number .it is 6 row and 4 column

**Step 2 :** we add row 0 and 2 into row 4 using slicing

**Step 3 :** we add row 1 and 3 into row 5 using slicing

**Step 4 :** finally we update the row 5 and 6