## **Assignment (Build a matrix)**

## 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.

## Solution

1. Import **numpy**.

```
[1]: import numpy as np
```

2. Generate a **random matrix** of 6\*4.

3. Slice the **random\_ints\_matrix** and replace the R5 by the sum of R1 and R3 and R6 by the sum of R2 and R4.

```
[3]: random_ints_matrix[4] = random_ints_matrix[0] + random_ints_matrix[2]
random_ints_matrix[5] = random_ints_matrix[1] + random_ints_matrix[3]
```

## **Peer Assignment**

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4. And the **updated matrix** is.

```
[4]: random_ints_matrix
[4]: array([[ 4,
                 6,
                     5,
                         3],
            [7,
                 3,
                     2,
                         6],
            [9, 5,
                     8,
                         1],
            [6,6,
                    1,
                         1],
            [13, 11, 13,
                         4],
            [13, 9, 3,
                         7]])
```