

2.2 Assignment Numpy

Peer Members:

- Syed Muhammad Raqim Ali Shah (2303.KHI.DEG.008)
- Maaz Javaid Siddique (2303.KHI.DEG.004)

Question:

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 as np
2
3 arr= np.random.randint(low=1,high=9,size=(6,4))
4 arr
```

```
array([[8, 2, 7, 8],
       [7, 5, 2, 4],
       [7, 2, 3, 5],
       [8, 4, 5, 5],
       [3, 2, 6, 6],
       [1, 1, 2, 1]])
```

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

```
array([[ 8,  2,  7,  8],
       [ 7,  5,  2,  4],
       [ 7,  2,  3,  5],
       [ 8,  4,  5,  5],
       [15,  4, 10, 13],
       [15,  9,  7,  9]])
```