**Numpy access, reshape, stacking, splitting**

1. Access
   1. M = np.random.randint(1, 10, size=(5, 5) ) – create an example array
   2. M[:2] – from 1 to 3-td row
   3. M[:, 1:] – every row and from second to last columt
   4. M[2, 1: 3] – second row and from second to fourth column
2. Reshaping
   1. M.shape – return shape of and matrix
   2. M.size – returns size (num\_row\*num\_column)
   3. M.ndim – returns dimensions of an matrix
   4. M.reshape(rows, column) – change shape of the matrix
3. Stacking
   1. Np.Vstack([m, n]) – combining two matrixes vertically
   2. Np.Hstack([m, n]) – combining two matrixes horizontaly
4. Splitting
   1. Np.split(m, [3, 5]) – split the array into 3 array on selected indexes
   2. Np.hsplit(m, [3]) – split the array horizontally on selected index
   3. Np.vsplit(m, [3]) – split the array vertically on selected index