**Python Assignment: 4**

1. Create a one dimensional array with the following values 1, 4, 3 and print the values.
2. Create a one dimensional array with the following values 1, 4, 3 and print the type of the array.
3. Create a two dimensional array with the following format: [(1, 2, 3), (4, 5, 6)] and print the values.
4. Create a two dimensional array with the following format: [(1, 2, 3), (4, 5, 6)] and print the type of the array.
5. Create a one dimensional array with the following values 1, 4, 3 and print the dimension of the array.
6. For the same one dimensional array find the byte size of an each element.
7. For the same one dimensional array find the data type of an each element.
8. For the same one dimensional array find the size of an array.
9. Create an array with np.zeros as 3, 3 values and print it.
10. Create an array with np.ones as 3, 3 values and print it.
11. Find the shape of the array for the following values.

[(1, 2, 3), (4, 5, 6)]

1. Find the re shape of the array for the following values.

[(1, 2, 3), (4, 5, 6)] and reshape (4, 2) and print it.

1. Find the slice of an array for the following values.

[(1, 2, 3), (4, 5, 6)] and a [0:, 2] and print it.

1. Print the linspace for the values (1, 2, 5).
2. Find the sum, max, min of an array for the following values [(1,2,3),(3,4,5)].
3. Find the column wise and row wise sum of an array for the following values [(1, 2, 3), (3, 4, 5)].
4. Find the transpose of an array [[1,2,3],[3,4,5],[9,6,0]] and print it.
5. Find the row wise sort and column wise sort for the following values [[1,4,2],[3,4,6],[0,-1,5]] and print it.
6. Find the horizontal split and vertical split for the following values

[[1,3,5,7,9,11],[2,4,5,8,10,12]] and print it.

1. Find the vstack and hstack for the following values

a=np.array([(1,2,3),(3,4,5)])

b=np.array([(1,2,3),(3,4,5)]) and print it.