Module 5: Introduction to NumPy

Assignment

1. Convert the given list into a numpy array and replace the odd elements with -2.

```
Lst =[[1,2,3],
      [4,5,6],
     [7,8,9]]
```

2. In the numpy array given below print all the elements ranging from 8 to 15.

```
arr = [1,2,3,4,5,8,9,10,12,22,32,54,99,6,7]
```

3. Create a 3*3 narray that includes numbers from 1 to 9 and swap columns 1 and 2.

4. In the given numpy array replace the NaN values with the average of columns

```
arr = np.array([[1.3, 2.5, 3.6, np.nan],
                [2.6, 3.3, np.nan, 5.5],
                [2.1, 3.2, 5.4, 6.5]])
```

5. For the numpy array given below perform the following operation:
   i.Convert the numpy array into a numpy matrix
   ii.Sort the values in a matrix

```
arr = [[2,4,6],
      [1,3,5]]
```