**CA1308A Data Analytics using Python**

**BCA VI Semester**

**Assignment on Numpy (30/01/2025)**

1. Question: Replace all odd numbers in arr with -1 without changing arr

# input: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

# output: [ 0, -1, 2, -1, 4, -1, 6, -1, 8, -1]

1. Question: Get the common items between a and b

# Input: a = np.array([1,2,3,2,3,4,3,4,5,6])

# b = np.array([7,2,10,2,7,4,9,4,9,8])

# Output: array([2, 4])

1. Question: From array a remove all items present in array b

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

# b = np.array([5,6,7,8,9])

# Output: array([1,2,3,4])

1. Question: Get the positions where elements of a and b match

# Input: a = np.array([1,2,3,2,3,4,3,4,5,6])

# b = np.array([7,2,10,2,7,4,9,4,9,8])

# Output: (array([1, 3, 5, 7]),)

1. # Question: Get all items between 5 and 10 from a.

# Input: a = np.array([2, 6, 1, 9, 10, 3, 27])

# Output: (array([6, 9, 10]),)

1. # Question: Reverse the rows of a 2D array arr.

# Input array ([[0, 1, 2],

[3, 4, 5],

[6, 7, 8]])

# Output array ([[6, 7, 8],

[3, 4, 5],

[0, 1, 2]])

1. # Question: Import the iris dataset keeping the text intact.
2. # Question: Find the mean, median, standard deviation of iris's sepallength (1st column)
3. # Question: Create a normalized form of iris's sepallength whose values range exactly between 0 and 1 so that the minimum has value 0 and maximum has value 1.
4. # Question: Find the number and position of missing values in iris\_2d's sepallength (1st column)