

# Lab Assignment -1

## (UCC547)

### NumPy

1. Reverse the NumPy array: `arr = np.array([1, 2, 3, 6, 4, 5])`
2. Compare the following numpy arrays: `arr1 = np.array([[1, 2], [3, 4]])`  
`arr2 = np.array([[1, 2], [3, 4]])`
3. Find the most frequent value and their indice(s) in the following arrays:
  - i. `x = np.array([1,2,3,4,5,1,2,1,1,1])`
  - ii. `y = np.array([1, 1, 1, 2, 3, 4, 2, 4, 3, 3, ])`
4. For the array `gfg = np.matrix('[4, 1, 9; 12, 3, 1; 4, 5, 6]')`,  
find
  - i. Sum of all elements
  - ii. Sum of all element's row-wise
  - iii. Sum of all element's column-wise