Lab6 Exercises

Q1) reshape the given array to 5 rows and 3 columns in **Fortran** order and return it to vector in C order without make copy

arr = np.arange(15)

Q2) concatenate the following arrays vertically (by the rows) the split it as shown

first: [[1 2 3]

[4 5 6]]

second: [[7 8 9]]

third: [[10 11 12]]

arr1 = np.array([[1, 2, 3], [4, 5, 6]])

arr2 = np.array([[7, 8, 9], [10, 11, 12]])

Q3) for the following array, repeat the first element twice, the second element three times, and the third element four times (9, 3) then use tile method to get this shape (9, 6) of the array

arr = np.random.randn(3,3)

Q4) Write a Python program to create a lambda function that adds 15 to a given number passed in as an argument, also create a lambda function that multiplies argument x with argument y and print the result

Q5) Write a Python program to create a function that takes one argument, and that argument will be multiplied with an unknown given number

Double the number of 15 = 30

Triple the number of 15 = 45

Quadruple the number of 15 = 60

Quintuple the number 15 = 75