**DAY 3 ASSIGNMENT 3**

Questions 1:

Create a numpy array starting from 2 till 50 with a stepsize of 3.

**SOL** import numpy as np

arr=np.arange(2,51,3)

print(arr)

Questions 2: Accept two lists of 5 elements each from the user. Convert them to numpy arrays. Concatenate these arrays and print it. Also sort these arrays and print it.

SOL:

import numpy as np

l1=[]

l2=[]

print("Enter 1st list : ")

for i in range(5):

  l1.append(int(input()))

print("Enter 2nd list : ")

for i in range(5):

  l2.append(int(input()))

arr1=np.array(l1)

arr2=np.array(l2)

arr3=np.concatenate((arr1,arr2),axis=0)

print("After Concatenation : ")

print(arr3)

print("After sort : ")

print(np.sort(arr3,axis=None))

Questions 3: Write a code snippet to find the dimensions of a ndarray and its size.

SOL. import numpy as np

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

print("No. of dimensions: ", arr.ndim)

print("Size of array: ", arr.size)

Question 4: How to convert a 1D array into a 2D array? Demonstrate with the help of a code snippet Hint: np.newaxis, np.expand\_dims

SOL. import numpy as np

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

arr2=np.reshape(arr,(3,2))

print(arr2)