Assignment (Day 3)

# Section A – Array Creation and Basics:

## Q1. Take 3 numbers from the user and store them in a NumPy array. Print the array.

Ans) Please refer the below code:

import numpy as np

num = []

for i in range(3):

    n = int(input(f"Enter number {i+1}: "))

    num.append(n)

arr1 = np.array(num)

print(arr1)

## Q2. Create a 1D array of 5 integers using NumPy. Print its size.

Ans) Please refer the code below:

num = []

for i in range(5):

    n = int(input(f"Enter number {i+1}: "))

    num.append(n)

arr2 = np.array([num])

print(np.size(arr2))

## Q3. Create a 2×3 array filled with zeros.

Ans) I’ve tried to make it dynamic so it’ll ask for rows and columns needed. Please follow the code below:

row = int(input("Enter number of rows: "))

col = int(input("Enter number of columns: "))

zero\_arr = np.zeros((row,col))

print(zero\_arr)

## Q4. Create a 3×2 array filled with ones.

Ans) I’ve tried to make it dynamic so it’ll ask for rows and columns needed. Please follow the code below:

row = int(input("Enter number of rows: "))

col = int(input("Enter number of columns: "))

one\_arr = np.ones((row,col))

print(one\_arr)

## Q5. Take 2 integers from the user and create an array. Print its shape.

Ans) I’ve tried to make it dynamic so it’ll ask for rows and columns needed and something to fill the array with. Please follow the code below:

row = int(input("Enter number of rows: "))

col = int(input("Enter number of columns: "))

i = input("Enter icon: ")

if i.isdigit():

    arr3 = np.full((row,col), int(i))

    print(np.shape(arr3))

else:

    arr3 = np.full((row,col),i)

    print(np.shape(arr3))