**Python Programming Assignment – 1**

1. Write a function in python which takes an array A and an integer N as arguments and returns the percentile of the given integer N in the array A.

Percentile of a number is defined as the ratio of the number of observations (numbers) less than the given number.

Example:

A = np.array([10,3,5,9,2,0,11,2,6,7,88,3,55]) N = 11

Output = 0.7692

Explanation:

There are 10 numbers in A which are less than the given integer N. So we compute the percentile as 10/13 = 0.7692

1. Write a function in python which takes a sentence A as an input and returns the number of words in the sentence that contains a vowel in it.

Example:

A = “This is my first programming assignment in python”

Output = 7

Explanation:

There are 7 words in the sentence which contains a vowel.