**DOT PRODUCT**

import numpy as np

def create\_matrix(mc):

    print("\n ARRAY"+str(mc)+"Elements:")

    array=map(int,input().split())

    array=np.array(list(array))

    print("\n ARRAY"+str(mc)+",ROW COLUMN:")

    row,column=map(int,input().split())

    if(len(array)!=(row\*column)):

        print("\n Row and column size not match with total elements!!retry")

        return create\_matrix(mc)

    array=array.reshape(row,column)

    print("\n ARRAY"+str(mc))

    print(array)

    return array

arr1=create\_matrix(1)

arr2=create\_matrix(2)

if(arr1.shape==arr2.shape):

    print("\n Dot product")

    print(np.dot(arr1,arr2))

else:

     print("\n Dimensions not matching")

**OUTPUT**

ARRAY1Elements:

1 2 3 4

ARRAY1,ROW COLUMN:

2 2

ARRAY1

[[1 2]

[3 4]]

ARRAY2Elements:

4 5 6 7

ARRAY2,ROW COLUMN:

2 2

ARRAY2

[[4 5]

[6 7]]

Dot product

[[16 19]

[36 43]]