INVERSE

import numpy as np

def create\_matrix(mc):

    print("\nARRAY"+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)

    print("\n Inverse:")

    return array

print(np.linalg.inv(create\_matrix(1)))

output

ARRAY1Elements:

1 2 3 4

ARRAY1ROW COLUMN:

2 2

ARRAY1

[[1 2]

[3 4]]

Inverse:

[[-2. 1. ]

[ 1.5 -0.5]]