# numpy program 1:

import numpy as np

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

print(a)

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

print(b)

c = np.zeros((3, 4))

print(c)

d = np.ones((2, 2))

print(d)

Output:

[1 2 3 4 5]

[[1 2 3]

[4 5 6]]

[[0. 0. 0. 0.]

[0. 0. 0. 0.]

[0. 0. 0. 0.]]

[[1. 1.]

[1. 1.]]

# numpy program 2:

a=np.array([1, 2, 3])

b=np.array([4, 5, 6])

c = a + b

print(c)

d=np.array([[1, 2], [3, 4]])

e=np.array([[5, 6], [7, 8]])

f = d \* e

print(f)

g=np.array([[1, 2], [3, 4]])

h=np.array([[5, 6], [7, 8]])

i=np.dot (g, h)s

print(i)

Output:

[5 7 9]

[[ 5 12]

[21 32]]

[[19 22]

[43 50]]