**import** numpy **as** np

*# create a 1-dimensional array*

a**=**np**.**array([1, 2, 3, 4, 5]) *#converting a list into an array*

print(a,'\n')

*# create a 2-dimensional array*

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

print(b,'\n')

*#create an array of zeros*

c **=** np**.**zeros((3, 4)) *#Zero matrix*

print(c,'\n')

*# create an array of ones*

d **=** np**.**ones((2, 2)) *#ones matrix*

print(d)

[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.]]

In [2]:

**import** numpy **as** np

*# create a 1-dimensional array*

a**=**np**.**array([1, 2, 3, 4, 5]) *#converting a list into an array*

print(a,'\n')

*# create a 2-dimensional array*

b **=** np**.**array([[11, 23, 35], [47, 59, 63]]) *#Multidimensional array*

print(b,'\n')

*#create an array of zeros*

c **=** np**.**zeros((2, 6)) *#Zero matrix*

print(c,'\n')

*# create an array of ones*

d **=** np**.**ones((4, 5)) *#ones matrix*

print(d)

[1 2 3 4 5]

[[11 23 35]

[47 59 63]]

[[0. 0. 0. 0. 0. 0.]

[0. 0. 0. 0. 0. 0.]]

[[1. 1. 1. 1. 1.]

[1. 1. 1. 1. 1.]

[1. 1. 1. 1. 1.]

[1. 1. 1. 1. 1.]]

In [3]:

*# add two arrays*

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

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

c **=** a **+** b *#adding two arrays so that every individual element in both arrays can be added*

print(c,'\n')

*# multiply two arrays.*

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

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

f **=** d **\*** e *#Multiplying two arrays*

print(f,'\n')

*# perform matrix multiplication*

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

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

i**=**np**.**dot (g, h) *#dot product of two arrays*

print(i)

[5 7 9]

[[ 5 12]

[21 32]]

[[19 22]

[43 50]]

In [4]:

*# add two arrays*

a**=**np**.**array([15, 27, 39])

b**=**np**.**array([43, 54, 61])

c **=** a **+** b *#adding two arrays so that every individual element in both arrays can be added*

print(c,'\n')

*# multiply two arrays.*

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

e**=**np**.**array([[10, 12], [14, 16]])

f **=** d **\*** e *#Multiplying two arrays*

print(f,'\n')

*# perform matrix multiplication*

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

h**=**np**.**array([[10, 12], [14, 16]])

i**=**np**.**dot (g, h) *#dot product of two arrays*

print(i)

[ 58 81 100]

[[ 50 72]

[ 98 128]]

[[134 156]

[182 212]]