Basic Operations

# Python code to demonstrate matrix operations

# add(), subtract() and divide()

# importing numpy for matrix operations

**import** numpy

# initializing matrices

x **=** numpy.array([[1, 2], [4, 5]])

y **=** numpy.array([[7, 8], [9, 10]])

# using add() to add matrices

print ("The element wise addition of matrix **is** : ")

print (numpy.add(x,y))

# using subtract() to subtract matrices

print ("The element wise subtraction of matrix **is** : ")

print (numpy.subtract(x,y))

# using divide() to divide matrices

print ("The element wise division of matrix **is** : ")

print (numpy.divide(x,y))

# Python code to demonstrate matrix operations

# multiply() and dot()

# importing numpy for matrix operations

**import** numpy

# initializing matrices

x **=** numpy.array([[1, 2], [4, 5]])

y **=** numpy.array([[7, 8], [9, 10]])

# using multiply() to multiply matrices element wise

**print** ("The element wise multiplication of matrix **is** : ")

print (numpy.multiply(x,y))

# using dot() to multiply matrices

print ("The product of matrices **is** : ")

print (numpy.dot(x,y))