```
In [1]: import numpy
        x = numpy.array([[1, 2], [4, 5]])
        y = numpy.array([[7, 8], [9, 10]])
        print ("Addition of two matrices: ")
        print (numpy.add(x,y))
```
numpy . show( )

```
        Addition of two matrices:
        [[ 8 10]
         [13 15]]
```

```
In [2]: print ("Subtraction of two matrices : ")
        print (numpy.subtract(x,y))

        Subtraction of two matrices :
        [[-6 -6]
         [-5 -5]]
```

```
In [3]: print ("Matrix Division : ")
        print (numpy.divide(x,y))


        Matrix Division :
        [[0.14285714 0.25      ]
         [0.44444444 0.5       ]]
```

```
In [4]: print ("Multiplication of two matrices: ")
        print (numpy.multiply(x,y))

        Multiplication of two matrices:
        [[ 7 16]
         [36 50]]
```

dot

```
In [5]: print ("The product of two matrices : ")
        print (numpy.dot(x,y))


        The product of two matrices :
        [[25 28]
         [73 82]]
```

```
In [6]: print ("square root is : ")
        print (numpy.sqrt(x))

        square root is :
        [[1.         1.41421356]
         [2.         2.23606798]]
```

```
In [7]: print ("The summation of elements : ")
        print (numpy.sum(y))

        The summation of elements :
        34
```

```
In [8]: print ("The column wise summation  : ")
        print (numpy.sum(y,axis=0))

        The column wise summation  :
        [16 18]
```

```
In [9]: print ("The row wise summation: ")
        print (numpy.sum(y,axis=1))

        The row wise summation:
        [15 19]
```

```
In [10]: print ("Matrix transposition : ")
         print (x.T)

         Matrix transposition :
         [[1 4]
          [2 5]]
```