```
In [1]: import numpy as np
        a=np.loadtxt('testmarks1.csv', delimiter=',', skiprows=1, dtype=float)
        print(a)
              43.05 27.79 28.7 27.79]
       [[801.
        [802. 43.47 28.52 28.98 27.89]
        [803. 42.24 28.16 28.16 25.63]
        [804. 39.24 26.16 26.16 26.16]
        [805. 40.9 26.03 27.27 25.65]
        [806. 39.47 26.31 26.31 25.21]
        [807. 41.68 25.63 27.79 25.46]
        [808. 42.19 27.61 28.13 26.21]
        [809. 44.75 28.35 29.83 28.21]
        [810. 46.95 28.88 31.3 28.53]]
In [2]: b=np.loadtxt('testmarks2.csv', delimiter=',', skiprows=1, dtype=float)
        print(b)
       [[801. 28.48 34.18 30.56 22.23]
        [802. 28.1 33.72 30.68 22.82]
        [803. 26.16 31.39 28.2 22.53]
        [804. 26.16 31.39 28.78 20.93]
        [805. 26.1 31.32 28.22 20.82]
        [806. 25.45 30.54 27.73 21.05]
        [807. 26.16 31.39 28.01 20.51]
        [808. 27.44 32.93 28.83 22.08]
        [809. 28.63 34.35 31.03 22.68]
        [810. 30.35 36.42 31.38 23.1]]
 In [3]: print("Addition of A and B")
        c=np.add(a,b)
        print(c)
       Addition of A and B
       [[1602. 71.53 61.97 59.26 50.02]
       [1604. 71.57 62.24 59.66 50.71]
        [1606. 68.4 59.55 56.36 48.16]
              65.4 57.55 54.94 47.09]
        [1608.
        [1610.
               67. 57.35 55.49 46.47]
        [1612.
                64.92 56.85 54.04 46.26]
        [1614.
                67.84 57.02 55.8 45.97]
        [1616.
               69.63 60.54 56.96 48.29]
        [1618.
               73.38 62.7 60.86 50.89]
        [1620.
               77.3 65.3 62.68 51.63]]
In [5]: print("Substraction of A and B")
        d=np.subtract(a,b)
        print(d)
       Substraction of A and B
       [[ 0. 14.57 -6.39 -1.86 5.56]
        [ 0. 15.37 -5.2 -1.7 5.07]
       [ 0. 16.08 -3.23 -0.04 3.1 ]
        [ 0. 13.08 -5.23 -2.62 5.23]
        [ 0. 14.8 -5.29 -0.95 4.83]
        [ 0. 14.02 -4.23 -1.42 4.16]
        [ 0. 15.52 -5.76 -0.22 4.95]
        [ 0. 14.75 -5.32 -0.7 4.13]
       [ 0. 16.12 -6. -1.2 5.53]
        [ 0. 16.6 -7.54 -0.08 5.43]]
In [6]: print("Multiplication of A and B")
        e=np.multiply(a,b)
        print(e)
       Multiplication of A and B
       [[6.4160100e+05 1.2260640e+03 9.4986220e+02 8.7707200e+02 6.1777170e+02]
        [6.4320400e+05 1.2215070e+03 9.6169440e+02 8.8910640e+02 6.3644980e+02]
        [6.4480900e+05 1.1049984e+03 8.8394240e+02 7.9411200e+02 5.7744390e+02]
        [6.4641600e+05 1.0265184e+03 8.2116240e+02 7.5288480e+02 5.4752880e+02]
        [6.4802500e+05 1.0674900e+03 8.1525960e+02 7.6955940e+02 5.3403300e+02]
        [6.4963600e+05 1.0045115e+03 8.0350740e+02 7.2957630e+02 5.3067050e+02]
        [6.5124900e+05 1.0903488e+03 8.0452570e+02 7.7839790e+02 5.2218460e+02]
        [6.5286400e+05 1.1576936e+03 9.0919730e+02 8.1098790e+02 5.7871680e+02]
        [6.5448100e+05 1.2811925e+03 9.7382250e+02 9.2562490e+02 6.3980280e+02]
        [6.5610000e+05 1.4249325e+03 1.0518096e+03 9.8219400e+02 6.5904300e+02]]
 In [9]: print("Division of A and B")
        f=np.divide(a,b)
        print(f)
       Division of A and B
                  1.51158708 0.81304857 0.93913613 1.25011246]
       [[1.
        [1.
                  1.54697509 0.84578885 0.94458931 1.22217353]
        [1.
                  1.6146789 0.89710099 0.99858156 1.13759432]
        [1.
                  1.5
                         0.83338643 0.90896456 1.24988055]
                  1.56704981 0.83109834 0.96633593 1.23198847]
        [1.
                  1.55088409 0.86149312 0.94879192 1.1976247 ]
        [1.
        [1.
                  1.59327217 0.81650207 0.99214566 1.24134569]
        [1.
                  1.53753644 0.83844519 0.97571974 1.1870471 ]
        [1.
                  1.56304576 0.82532751 0.96132775 1.24382716]
        [1.
                  1.54695222 0.7929709 0.99745061 1.23506494]]
In [10]: print("Transpose of A is")
        c=np.transpose(a)
        print(c)
       Transpose of A is
       [[801. 802. 803. 804. 805. 806. 807. 808.
                                                           809. 810. ]
        [ 43.05 43.47 42.24 39.24 40.9 39.47 41.68 42.19 44.75 46.95]
        [ 27.79 28.52 28.16 26.16 26.03 26.31 25.63 27.61 28.35 28.88]
        [ 27.79 27.89 25.63 26.16 25.65 25.21 25.46 26.21 28.21 28.53]]
In [12]: print("Sorting of B is")
        c=np.sort(b)
        print(c)
       Invert of B is
       [ 22.82 28.1 30.68 33.72 802. ]
        [ 22.53 26.16 28.2 31.39 803.
        [ 20.93 26.16 28.78 31.39 804.
        [ 20.82 26.1 28.22 31.32 805.
        [ 21.05 25.45 27.73 30.54 806.
        [ 20.51 26.16 28.01 31.39 807.
        [ 22.08 27.44 28.83 32.93 808. ]
        [ 22.68 28.63 31.03 34.35 809. ]
       [ 23.1 30.35 31.38 36.42 810. ]]
In [14]: print("Ravel of A is")
        c=np.ravel(a)
        print(c)
       Ravel of A is
       [801. 43.05 27.79 28.7 27.79 802.
                                              43.47 28.52 28.98 27.89
       803. 42.24 28.16 28.16 25.63 804.
                                              39.24 26.16 26.16 26.16
             40.9 26.03 27.27 25.65 806.
                                              39.47 26.31 26.31 25.21
        807.
             41.68 25.63 27.79 25.46 808.
                                             42.19 27.61 28.13 26.21
             44.75 28.35 29.83 28.21 810. 46.95 28.88 31.3 28.53]
In [15]: print("Modulus of A and B")
        c=np.mod(a,b)
        print(c)
       Modulus of A and B
       [[ 0. 14.57 27.79 28.7 5.56]
        [ 0. 15.37 28.52 28.98 5.07]
        [ 0. 16.08 28.16 28.16 3.1 ]
        [ 0. 13.08 26.16 26.16 5.23]
        [ 0. 14.8 26.03 27.27 4.83]
        [ 0. 14.02 26.31 26.31 4.16]
        [ 0. 15.52 25.63 27.79 4.95]
         0. 14.75 27.61 28.13 4.13]
        [ 0. 16.12 28.35 29.83 5.53]
        [ 0. 16.6 28.88 31.3 5.43]]
In [23]: print("Mean of A")
        c=np.mean(a,axis=0)
        print(c)
       Mean of A
       [805.5 42.394 27.344 28.263 26.674]
In [24]: print("Stadard deviation of B")
        c=np.std(b,axis=0)
        print(c)
       Stadard deviation of B
       [2.87228132 1.47934479 1.77547768 1.33380508 0.9049116 ]
In [18]: print("Unique from A")
        c=np.unique(a)
        print(c)
       Unique from A
       [ 25.21 25.46 25.63 25.65 26.03 26.16 26.21 26.31 27.27 27.61
        27.79 27.89 28.13 28.16 28.21 28.35 28.52 28.53 28.7 28.88
        28.98 29.83 31.3 39.24 39.47 40.9 41.68 42.19 42.24 43.05
        43.47 44.75 46.95 801. 802. 803. 804. 805. 806. 807.
        808. 809. 810. ]
In [25]: print("Max in A")
        c=np.max(a)
        print(c)
       Max in A
       810.0
In [26]: print("min of B")
        c=np.min(b)
        print(c)
       min of B
       20.51
In [28]: print("Average of A")
        c=np.average(a)
        print(c)
       Average of A
       186.0349999999997
In [29]: print("Average of B")
        c=np.average(b)
        print(c)
       Average of B
       183.35659999999996
In [30]: print("min of A")
        c=np.min(a)
        print(c)
       min of A
       25.21
```

Max in B 810.0

In []: