```
In [3]: #Linear Algebra Solving
         # Lets consider 3x+2y=12
                          2x - y = 1
                                    find x and y
         #Method-1
 In [5]: import numpy as np
         a=np.array([[3,2],[2,-1]])
         b=np.array([12,1])
         print(a)
         print(b)
         [[ 3 2]
          [ 2 -1]]
         [12 1]
 In [6]: x=np.linalg.solve(a,b)
 In [7]: | print("Solution= ",x)
         Solution= [2. 3.]
 In [8]: # Lets consider 3x+2y=12
                          2x - y = 1
                                    find x and y
         #Method-2
 In [9]: | a=np.array([[3,2],[2,-1]])
         b=np.array([12,1])
         print(a)
         print(b)
         [[ 3 2]
          [ 2 -1]]
         [12 1]
In [10]: |ai=np.linalg.inv(a)
In [11]: | print(ai,type(ai))
         [[ 0.14285714  0.28571429]
          [ 0.28571429 -0.42857143]] <class 'numpy.ndarray'>
In [12]: | x=np.matmul(ai,b)
         print("Solution= ",x)
         Solution= [2. 3.]
```