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In [1]: #Filtering the Elements of ndarray
 In [2]: import numpy as np
 In [3]: 1st=[10,-20,34,-45,67,-38,-12,0,13]
         a=np.array(lst)
         print(a,type(a))
         [ 10 -20 34 -45 67 -38 -12 0 13] <class 'numpy.ndarray'>
 In [4]:
         #Step-1: Prepare boolean array with Condition----ndarray with condition
         ba=a>0
         print(ba,type(ba))
         [ True False True False True False False False True] <class 'numpy.ndarra
         y'>
 In [5]: |#Step-2: Pass the boolean array to ndarray object----ndarrayobj[boolean array
         a[ba]
 Out[5]: array([10, 34, 67, 13])
 In [6]: |#OR-Direct Approach
         #Syntax: ndarrayobj[ndarrayobject with condition]
         a[a>0]
 Out[6]: array([10, 34, 67, 13])
 In [7]: a[a<0]
 Out[7]: array([-20, -45, -38, -12])
 In [8]: | 1st=[10,20,30,40,50,60,70,80,90]
         a=np.array(lst)
         a.shape=(3,3)
         print(a)
         [[10 20 30]
          [40 50 60]
          [70 80 90]]
In [10]: #obtain multiples of 3
         a[a%3==0]
Out[10]: array([30, 60, 90])
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In [12]: #obtain multiples of 4
         a[a%4==0]
Out[12]: array([20, 40, 60, 80])
In [13]: #obtain multiples of 5
         a[a%5==0]
Out[13]: array([10, 20, 30, 40, 50, 60, 70, 80, 90])
In [14]: a[(a>20)&(a<55)] # Use Bitwise Operators but not Logical Operators
Out[14]: array([30, 40, 50])
In [15]: # a[20<a<55] # Invalid
         ValueError
                                                   Traceback (most recent call last)
         Cell In[15], line 1
         ---> 1 a[20<a<55]
         ValueError: The truth value of an array with more than one element is ambiguo
         us. Use a.any() or a.all()
In [ ]:
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