```
In [1]: import numpy as np
 In [2]: | a=np.array([10,-20,30,-40,50,0,25,-45])
 In [3]: #Select OR Filter Only +Ve Elements
         #Method1: Prepare Boolean Array
                   Syntax:
                             booleanarray=ndarrayobj[TestCond]
                   Pass Boolean Array Object to ndarray object
                            ndarrayobj[booleanarray]
                   Syntax:
 In [4]: | print(a)
         [ 10 -20 30 -40 50 0 25 -45]
 In [5]: ba=a>0 # Vector Based Opereation
         print(ba, type(ba))
         [ True False True False True False] <class 'numpy.ndarray'>
 In [6]: #Pass Boolean Array Object to ndarray object
         a[ba]
 Out[6]: array([10, 30, 50, 25])
 In [7]: #Select OR Filter Only +Ve Elements
         #Method2:
                    ndarrayobj[ndarrayobj[TestCond]]
         # Syntax:
 In [8]: a[a>0]
 Out[8]: array([10, 30, 50, 25])
 In [9]: #Select OR Filter Only -Ve Elements
         ba=a<0 # Boolean array
         a[ba]
Out[9]: array([-20, -40, -45])
In [11]: #OR
         a[a<0]
Out[11]: array([-20, -40, -45])
```

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In [12]: | a=np.array([10,20,30,40,50,60,70,80,90,15,25,35,45,65,75,85,25,35])
         print(a,type(a))
         print("Dim of a=",a.ndim)
         [10 20 30 40 50 60 70 80 90 15 25 35 45 65 75 85 25 35] <class 'numpy.ndarra
         y'>
         Dim of a= 1
         #get all the even Numbers
In [14]:
         a[a%2==0]
Out[14]: array([10, 20, 30, 40, 50, 60, 70, 80, 90])
In [15]: #get all the odd Numbers
         a[a%2!=0]
Out[15]: array([15, 25, 35, 45, 65, 75, 85, 25, 35])
In [16]: #get all the Mulples of 3
         a[a%3==0]
Out[16]: array([30, 60, 90, 15, 45, 75])
         #get all the Mulples of 6
In [17]:
         a[a\%6==0]
Out[17]: array([30, 60, 90])
 In [ ]:
```