## 1.1 Write a Python Program to implement your own myreduce() function which works exactly like Python's built-in function reduce()

## 1.2 Write a Python program to implement your own myfilter() function which works exactly like Python's built-in function filter()

```
In [25]: #Using our own fliter method we will convert float , int, string into integer val
         def myfilter(lst):
             new list =[]
             for i in 1st:
                 new = int(i)
                 new_list.append(new)
             return new list
         #Example 1
         11= [1,11.5,2.6,9.2,3.5]
         res_1 = myfilter(l1)
         print("Example 1 :-{a}".format(a = res 1))
         #Example 2
         12= ['15','85','36','74']
         res 2 = myfilter(12)
         print("\nExample 2 :-{a}".format(a = res_2))
         Example 1 :-[1, 11, 2, 9, 3]
         Example 2 :-[15, 85, 36, 74]
 In [ ]:
```

## 2. Implement List comprehensions to produce the following lists.

## Write List comprehensions to produce the following Lists

```
In [ ]:
          q3)['x', 'y', 'z', 'xx', 'yy', 'zz', 'xxx', 'yyy', 'zzz', 'xxxx', 'yyyy', 'zzzz']
In [34]: | string = "xyz"
          LIST=[m*i for i in range(1,5) for m in string]
          print(LIST)
          ['x', 'y', 'z', 'xx', 'yy', 'zz', 'xxx', 'yyy', 'zzz', 'xxxx', 'yyyy', 'zzzz']
 In [ ]:
          q4) [[2], [3], [4], [3], [4], [5], [4], [5], [6]] [[2, 3, 4, 5], [3, 4, 5, 6],
          [4, 5, 6, 7], [5, 6, 7, 8]]
In [29]: lst = [int(x) for x in range(1,9)]
          new_lst1=[]
          new_lst2=[]
          ed=1
          for i in range(3):
               ed+=1
               for 1 in range(ed,ed+3):
                    sd =[]
                    sd.append(1)
                    new_lst1.append(sd)
          m=1
          for j in range(4):#2nd option
               n = []
               m+=1
               for k in range(m , m+4):
                    n.append(k)
               new lst2.append(n)
          print(new_lst1,new_lst2)
          [[2], [3], [4], [3], [4], [5], [4], [5], [6]] [[2, 3, 4, 5], [3, 4, 5, 6], [4,
          5, 6, 7], [5, 6, 7, 8]]
 In [ ]:
          q5) [(1, 1), (2, 1), (3, 1), (1, 2), (2, 2), (3, 2), (1, 3), (2, 3), (3, 3)]
```

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```
In [7]: lst = [1,2,3]
    new_list = []
    for i in lst:
        a = [j,i]
        a = tuple(a)
        new_list.append(a)

print(new_list)

[(1, 1), (2, 1), (3, 1), (1, 2), (2, 2), (3, 2), (1, 3), (2, 3), (3, 3)]
In []:
```