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MAP, FILTER AND REDUCE
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a) MAP

- map function applied onto each of the elements in a sequence and creates another sequence.

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old_list = "Welcome"

newlist = []

for ch in old_list:

newlist.append (ch. capitalize U)

print (" Old-list: ", old-list)
print (" New list: ", newlist)

4 FLITER

Filter operation is to select some of the elements from a list and return a sublist.

CHELL (OH LIST)

list varameters

(district (laters)

ar

Q3.

A = [33, 44, 55, 66, 77, 88]evenlist = []

for n in range (len (A)):

if (A [n] % 2 == 0):

even list append (A [n])

Print ("Given list: ", A)

Print ("evenlist: "; evenlist)

S = "Welcome to Python"

yes = []

for ch in S:

if (ch.isupper()):

ges.appen(ch)

Print (yes)

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REDUCE
    An operation that combine a sequence of elements
    into a single value is called reduce.
    def sum-all (t):
        total = 0
        for x in t:
           tatal + = x
        return (total)
    List 1 = [1,2,3]
    print (" Total: ", sum-all [List])
# Deleting elements
a) pop() Syntax: Listname · pop (index)
    - works on the object
    A = [1,2,3,4,5]
    x = A . Pop (2) # 2
· b) del
   syntax: del. Listname [index]
    t = ['a', 'b', 'c', 'd']
   del t[] # ['a', 'c', 'd']
c) remove ()
   syntax: listrame. remove ('element')
   t = ['a', 'b', 'c']
   to remove (b) # ['a', 'c']
```