
*** List comprehension offers a shorter syntax when you want to create the values a new list based on the values of an existing list. (Definition)**

*** Syntax of List Comprehension.**

new_list = [expression for item in iterable if condition == True]

Example: ls = [44, 11, 22, 33, 45]

new_ls = [a*a for a for a in ls]

print (new_ls)

Assignment

Q1. Using list Comprehension find out Number Divisible by 7 from 1 to 1000?

-> xyz = [a for a in range (7, 1001) if a % 7 == 0]

print(xyz)

Q2. Count Number of Spaces in string (using List Comprehension)?

-> ls = ["d BHJabn", "S j a s", "sj os", "Aj nsins"]

As = [a.count(" ") for a in ls]

print("HI = ", as)

Q3. Using List Comprehension Convert all Character to upper case in list Of words?

-> Str = ["jkjlmop", "apple" "custard apple"]

abc = [b.upper() for b in str]

print (abc)

xyz = [a for a in range (7, 1001) if a%7 = 0]

print (xyz).

Q4. Using list Comprehension find out Common Number in between two list?

-> asf = [3,5,88, -9 -10 ~]

san = [2,5,88,6,99 4]

xyz = [a for a in asf if a in San]

print(xyz)

Q5. Using List Comprehension find all Number from 12 to 1000 that has 3 in them?

-> xyz = [a for a in range(1000) if "3" in str(a)]

print (xyz)
