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List comprehension in python provides a confise way to create lists by applying an expression to each I lem in an iterable.

9t combine conditional statements in a sigle line of code, making it both efficient & readable.

Syntax:-

Texpression for item in iterable it condition

Ex: numbers = [1,2,3,4,5,6,7]

point even numbers.

even_numbers = [x fox x in numbers it x%2==0] #output > [2,4,6]

squared of the number.

squared numbers = [nx28 for n in numbers]

Howlput -> [1,4,9,16,25,36,49]

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abcd dic(i) a:a ren dict[eli] = 1

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Set: A set is an unardered collection of unique elements in Python.

Sets are defined using braces & 3 on by using the set () function.

Set Element in a set are immutable, but set itself is mutable. Ci.e., you can add on remove elements).

Set support mathematical set operations such as union, intersection and difference.

& Set funtions:

my_set = my_set = set ([1,2,3])

my_set.add(4)

paint (my_set)

\$1,2,3,43

mot present.

my-set. remove (3) # \$1,2,43

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3)	discard(): Remove an element if it exists: doesn't raise an error if the element is not present.	
7-	my-set.discand(2) print(my-set) # output: - 52,43	
4)	pop (): Remove & seturns an arbitary element from the set. element = my_set.pop() print (element) # output:- 1	
3)	print (200 my-set) # output:- union (): Reluns the union of 2 sets.	6666
	$set_a = \{1,2,33\}$ $set_b = \{3,4,5\}$ $print(set_a.union(set_b)).$	80000
#	= output :- \$1,2,3,4,53	6

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intersection (): Returns the intersection (common & element) of 2 sets.

point (seta: intersection (set-b))

output: \$33

7 difference (): Return the difference (element in first set but not in 2nd set).

print (set_a. difference (set_b))

#output: \$1,23

clean(): Remove all elements from the set.

Set a clean ()
print (set-a)

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Hardput; set ()