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#1) enumerate
The enumerate() function takes a
collection (e.g a tuple, a list) and
returns it as an enumerate object.
and enumerate() function adds a
counter as the key of the enumerate

object. # Syntax # enumerate(iterable, start) # Example # Convert a list into an enumerate object: t = ('apple', 'banana', 'cherry') y = enumerate(t)

print(list(y))
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2) Reduce()
The reduce(fun, seq) function is
used to apply a particular function
passed in its argument to all of the
list elements
mentioned in the sequence passed
along.

This function is defined in "functools" module. # Syntax # functools.reduce(function, iterable[initializer]) # # Example---# python code to demonstrate working of reduce() import functools

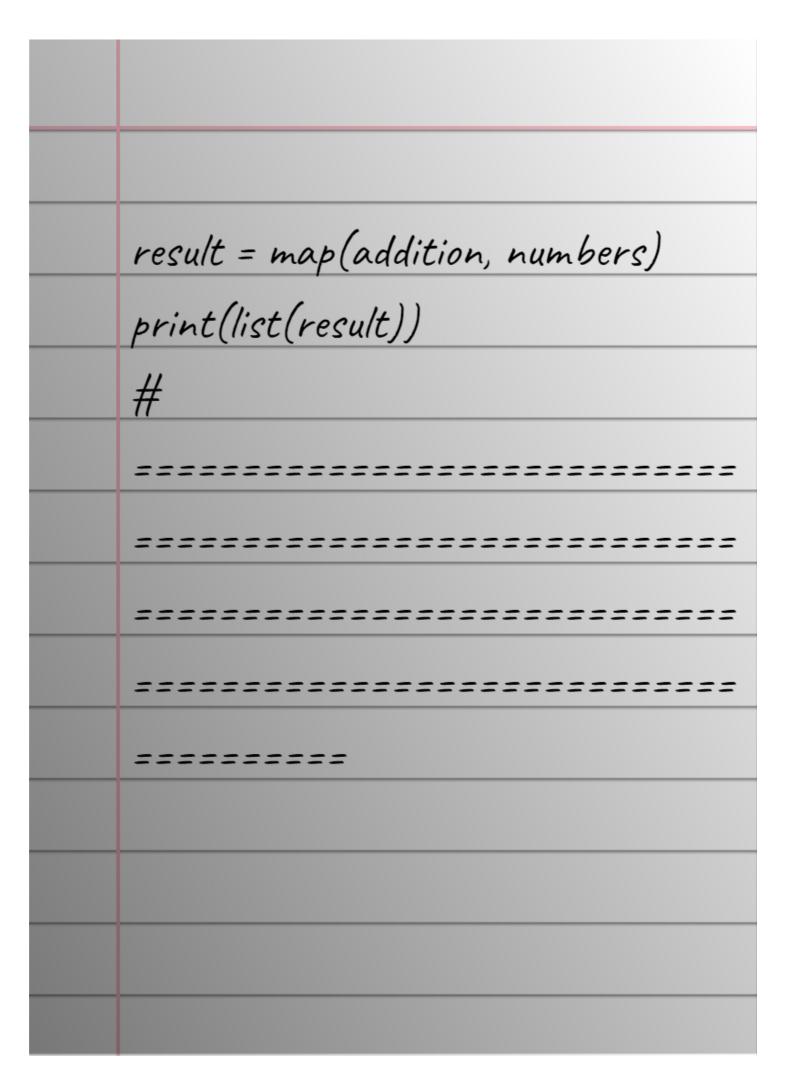
initializing list lis = [1, 3, 5, 6, 2]# using reduce to compute sum of list print ("The sum of the list elements i s", end="") print(functools.reduce(lambda a, b: a+b, lis)) # using reduce to compute maximum element from list

print ("The maximum element of the list is ", end="") print(functools.reduce(lambda a, b: a if a > b else b, lis)) # ____________ ___________ ____________ _____________ -------

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#3). map() function returns a map
object(which is an iterator) of the

results after applying the given function to each # item of a given iterable (list, tuple etc.) # Syntax: # map(fun, iter) # Parameters: # fun: It is a function to which map passes each element of given iterable. # iter: It is iterable which is to be

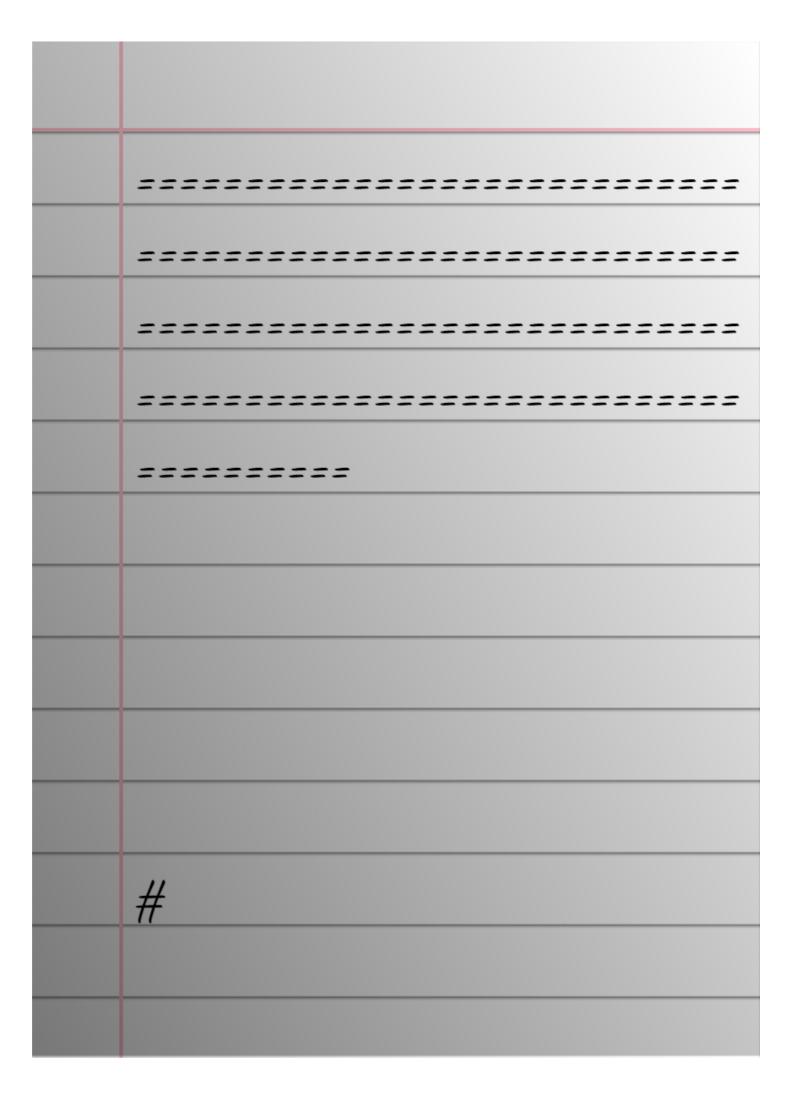
mapped. ## Example ## Python program to demonstrate working of map. # Return double of n def addition(n): return n + n# We double all numbers using map() numbers = (1, 2, 3, 4)



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#4). filter() Function
The filter() function returns an
iterator where the items are filtered
through a function to test if the item

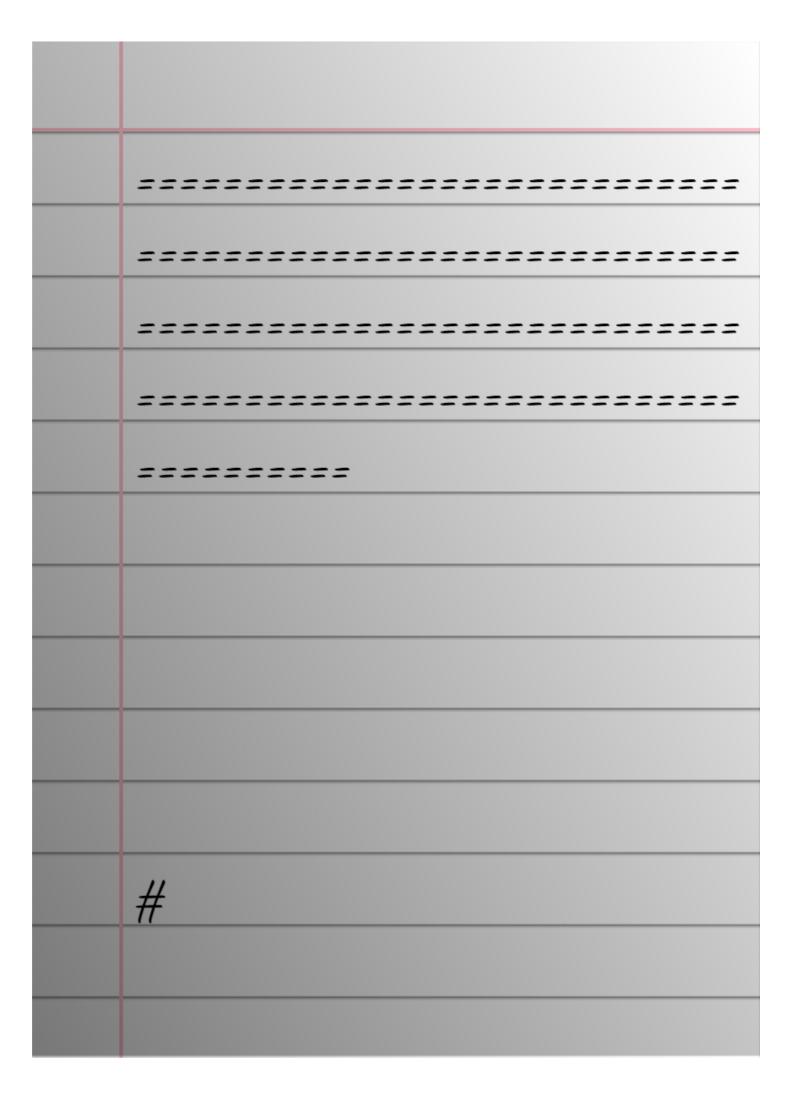
is # accepted or not. # Syntax: # filter(function, iterable) # Example: ages = [5, 12, 17, 18, 24, 32] def myFunc(x): if x < 18: return False

else:
return True
adults = filter(myFunc, ages)
for x in adults:
print(x)
#



____________ -------# 5). zip () Function # The zip() function returns a zip object, which is an iterator of tuples where the first item in each passed iterator is paired # together, and then the second item in each passed iterator are paired together etc. # If the passed iterables have different lengths, the iterable with the least items decides the length of the new iterator. # Syntax: #zip(iterator1, iterator2, iterator 3 ...) # Example:

a = ("John", "Charles", "Mike") b = ("Jenny", "Christy", "Monica") x = zip(a, b)#use the tuple() function to display a readable version of the result: print(tuple(x)) #



____________ ======== # 6). ID() function : # id() function is a built-in function that returns the unique identifier of an object. The identifier is an integer, # which represents the memory