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AICTE id: STU654616162C2151699093270

1) Enumerate:

In Simple words, the ensumerate function takes as input, an iterable and adds a counter to each iterable element, and returns an enumerate object. The counter can also act as indices to each element which can be used to reference these element at a later stage when required.

Enumerate () is a built in function in Rython. This function allows us to loop over Something and have an automatic counter. And this function works by adding a Counter to an Iterable and returning it in the forms of an enumerate object. The enumerate object can be used directly for loops or conserted into a task list of tuples using the list () Methods Syntam: - enumerate (iterable, start-index).

Print the index along with the items of a list.

Program: Letters = ["a", "b", "c", "d", e, +, g]

index=0
for letter in letters:
Print (index, (etter)
index+=1.

60.60 convert a tuple into an enumerate object. X= ('apple', 'banona', 'cherry') Y= enumerate (x) 2. Reduce () The Reduce 1) function is used to apply a Particular function passed in its argument to all the list elements mentioned in the sequence Passed along. This function is defined in functions "Module The reduce () tunction & defined in the function module. This function receives two alguments, a function and an iterable. Syntary. functools reduce (my functions, iterable, initialize) Gramples import functions def mult (x, y):

Print (x= ", x, 'y=', y) return x*y -fant = functions. reduce (mult, range (1,4)) Print (Factorial of 3:, fact) . Output! factorial of 3:6:15)

3. Map():-

Rython map () applies a function on all the items of an iterator given as input, in iterator, for Grample, can be a list, a tuple, a set, a dictionary, a string and it returns an iterable map object. Rython and it returns an iterable map object. Rython map () is a built-in-function

Syntax: - map (functions iterators, iterators ... iterators)

return n*n

my_list = [2,3,4,5,1,4,8,9]

updated_list = map (esquare, my-list)

Print (updated_list)

Print (list (updated_list))

output: <map object at 0x0000002c59601748>

4. filter () is a built in function in Rython. The filter filter () is a built in function in Rython. The filter function can be applied to an sterable such as function can be applied to an sterable such as a list or a dictionary and create a new sterator. This new iterator can filter out certain specific clements based on the Condition that you clements based on the Condition that you knowledge stery efficiently.

Systan: felter (function, iterable) - Gramples det check (letter): lit_of_ Vavels = ['a', e', 'e', 'o', 'u'] if letter in list of - Vowels: return True letters = ['v', 'a', 'a', 'c', 'i), 'd', 'z', 'p', 'e'] filtered_object = filter (check, lettere) Print (The type of returned Object is: ", type Hittered object) filtered list = list (filtered doject) Print l'the 18t4 Vowels 16: "fittered-list). The type of returned object is: < class 'Lilter's The list of vaidel is ['b', la', le'], le'] 5. Ziply id! In Python, id1) function is a built-in function that returns the unique identifies of an object. The identifier is an integer, which represents the memory address of the object. The ide function is commonly used to check if two Clariables or objects refer to the same memory locations

Syntax: - id (object) () (") taist -Example! -X=42 eterior 2=42 Print (rd(x)) Print (id (y)) Print (id(z)) Output:- 140642115230496 (3,0)) ev 140642115230496 140642115230496. 6) Zip ():-Python zipl) function returns a zip object, which maps a similar index of multiple Containers. It takes iterable, makes it an iterator that aggregates the elements based on iterates Pagged, and returns an iterator of tuple. It is a built-in-function that is used to Combine two or more iterables into a single iterable. Syntax:- zip(* iterables) -Gample! - Co-ordinate = ['x', Y, z] Value = [6, 2, 8, 5, 1]. result = zip (coordinate, value)

result list = list (result)

Print (result list)

C, V = zip(* result(it)) Print('c=', C) Print('v=', V)output: ('x', 6), ('y', 2), ('z', 8)) c=('x', 'y', 'z') V = (6, 2, 8)

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