

Section-6

Q3

Discuss the following list functions `len()`, `sum()`, `any()`, `all()`, `sorted()`. Explain the following list methods with example. `append()`, `extend()`, `insert()`, `index()`, `sort()`

Solⁿlen() :-

This list function is used to find the length of any string, set, etc.

sum() :-

This function returns a number, the sum of all items in all iterable.

any() :-

This function returns True if any item in an iterable are true, otherwise it returns false. If the iterable object is empty, the `any()` ~~all()~~ function will return false.

all() :-

The `all()` function returns True if all items in an iterable are true, otherwise it returns false if the iterable object is empty. The `all()` function also return True.

sorted() :-

This function returns a sorted list of the specified iterable object.

append() :-

It is a method that allows us to append an item to a list. i.e, we can insert an element at the end of the list.

Ex :-

~~lst~~ lst = [5, 9, 10, 13]

lst.append(52)

print(lst)

output → [5, 9, 10, 13, 52]

extend() :-

This method adds all the elements of an iterable (list, tuple, string, etc) to the end of the list.

Ex :-

lst = [5, 10]

lst2 = [15, 20]

lst.extend(lst2)

print(lst)

output = [5, 10, 15, 20]

insert() :-

The list insert() method insert an element to the list at the specified index.

~~Ex~~ Ex → lst = [5, 10, 15, 20]

lst.insert(2, 25)

print(lst)

output → [5, 10, 25, 15, 20]

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index() :-

This method returns index of the passed element.
This method takes an argument and returns index of it.