Comprehensive List of

Tuple

Functions and Methods

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https://chlorinexxe.github.io/portfolio

Tuple

- Tuple is a collection of ordered and immutable items in python written in parentheses "()"
 - Immutable
 - Ordered
 - Indexed
 - Allows Duplicates
 - Written withing "()"

Creation

- tuple() : Creates an empty tuple or converts another iterable into a tuple
- () : The empty parentheses create an empty tuple
- (item,) : Creates a tuple with a single item

Manipulations

• tuple.count() : Returns the number of occurrences of item in the tuple

• tuple.index() : Returns the index of the first occurrence of item in the tuple

• tuple+other_tuple : Concatenates two tuples

• tuple * n : Creates a new tuple with n copies of the original tuple

• len(tuple) : Returns the number of items in the tuple

• min(tuple) : Returns the smallest item in the tuple

• max(tuple) : Returns the largest item in the tuple

• sorted(tuple) : Returns a sorted list of the tuple's elements

• reversed(tuple) : Returns a reversed tuple as iterator sequence

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Accessing Elements

• tuple[i] : Returns the item at index i

• tuple[srart: end] : Returns a slice of the tuple from index start to end

• tuple[start: end:step] : Returns a slice of the tuple from index start to end-1 with a step of step

Iteration

• for item in tuple: : Iterates over each item in the tuple

• enumerate(tuple) : Returns an enumerate object, yielding pairs of an index and an element from the tuple

• iter(obj) : Returns an iterator object from a tuple.

• zip(*iterables) : Aggregates elements from multiple iterables into tuples.

Membership Test

• item in tuple False

: Returns True if item is present in the tuple, otherwise

• item not in tuple otherwise False

: Returns True if item is not present in the tuple,

Conversion

• tuple(sequence) : Converts seq into a tuple

• str(tuple) : Converts the tuple into a string representation

• list(tuple) : Converts the tuple into a list

Built-in Functions

• sum(tuple) : Returns the sum of all items in the tuple

• all(tuple) : Returns True if all items in the tuple are True

• any(tuple) : Returns True if any item in the tuple is True

Tuple Unpacking and Slice

- a,b,c = (1,2,3) : Allows assignment of tuple elements to multiple variable in a single statement
- a=(1,2,3,4,5)
 s=slice(1,4)
 a[s] #output: (2,3,4) : Creates a slice object used for slicing tuples. To create a subset of tuples

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