

VS





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In Python, sorting sequences is straightforward with built-in methods like sort() and sorted().

Both methods are used for sorting but differ in their approach and usage.

### sorted() Method

The sorted() function sorts any given sequence (like lists, tuples, or dictionaries) and returns a new sorted list. It does not modify the original sequence.

#### Syntax:

sorted(iterable, key=None, reverse=False)

### sort() Method

The sort() method is specific to lists and sorts the list in place, modifying the original list. It does not return a new list

#### Syntax:

list.sort(key=None, reverse=False)

#### **Key Differences**

#### 1. Return Type:

sorted(): Returns a new sorted list.

sort(): Returns None and sorts the list in place.

#### 2. Original Sequence:

sorted(): Does not modify the original sequence.

sort(): Modifies the original list.

#### 3. **Usage**:

sorted(): Can be used with any iterable (lists, tuples, dictionaries). sort(): Can only be used with lists.

#### 4. Flexibility:

sorted(): More flexible as it can handle different types of iterables.

sort(): Limited to lists.

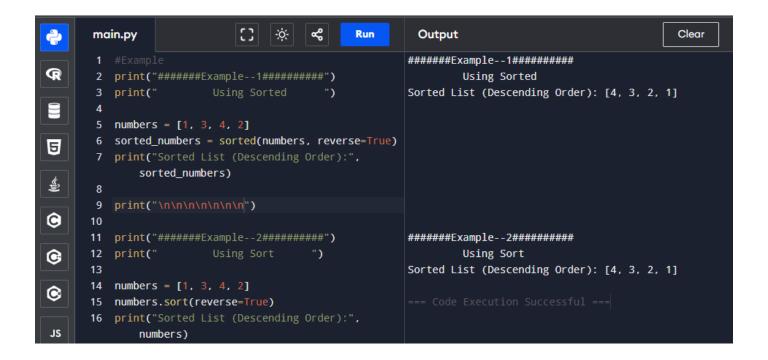
## **Conclusion**

Choosing between sort() and sorted() depends on whether you need to preserve the original sequence or not. Use sorted() when you need a new sorted list and sort() when you want to sort the list in place.

# **EXAMPLES/ILLUSTRATIONS**

```
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                                                                                                Clear
                              -<u>;o</u>-
                                                      Output
main.py
                                           Run
                                                    ######Example--1#########
2 print("######Example--1######")
                                                             Using Sorted
3 print("
                  Using Sorted
                                                    Sorted list:
                                                    [1, 2, 3, 4, 5]
5 L = [1, 5, 4, 2, 3]
6 print("Sorted list:")
                                                    Original list after sorting:
                                                    [1, 5, 4, 2, 3]
7 print(sorted(L))
8 print("\nOriginal list after sorting:")
9 print(L)
```

```
Clear
                                    Ö-
                                         જુ
                                                Run
                                                          Output
       main.py
                                                         ######Example--1#########
R
       2 print("######Example--1######")
                                                                 Using Sort
                                                         Sorted list:
       3 print("
                         Using Sort
                                                         [1, 2, 3, 4, 5]
       5 L = [1, 5, 4, 2, 3]
       6 L.sort()
                                                         Original list after sorting:
5
       7 print("Sorted list:")
                                                         [1, 2, 3, 4, 5]
       8 print(L)
       9 print("\nOriginal list after sorting:")
       10 print(L)
```



# THANK YOU

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