

The reversed () function in Python

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Learn about the reversed () function built into Python

The syntax of the reversed () function in Python

```
reversed(seq)
```

Parameters of the reversed () function:

Reversed () has only one parameter:

1. `seq` : the string you want to reverse.

Strings are objects that support string protocols like `__len__ ()` and `__getitem__ ()` methods. For example: tuple, string, list, range .

Can use reversed () with any object implementing `__reverse__ ()`

Return value from (reversed)

The `reversed ()` function allows us to process the items in the reverse order of the original string, receive the string and return an iterator with the reversed value of the original string passed.

Example 1: Using `reversed ()` with string, tuple, list and range

```
print( reversed([44, 11, -90, 55, 3]) ) # v?
i string seq_string = 'Python' print(list(reversed(seq_string))) # v?
i tuple seq_tuple = ('P', 'y', 't', 'h', 'o', 'n') print(list(reversed(seq_tuple))) # v?
?i range seq_range = range(5, 9) print(list(reversed(seq_range))) # v?
i list seq_list = [1, 2, 4, 3, 5] print(list(reversed(seq_list)))
```

Running the program, the result is returned:

```
['n', 'o', 'h', 't', 'y', 'P'] ['n', 'o', 'h', 't', 'y', 'P'] [8, 7, 6, 5] [5, 4, 3, 2, 1]
```

In the above example, we are converting the result of `reversed ()` to list using the `list ()` function.

Example 2: `reversed ()` with custom objects

```
class Vowels: vowels = ['a', 'e', 'i', 'o', 'u'] def __reversed__(self): return reversed(self.vowels)
```

Running the program, the result is returned:

```
['u', 'o', 'i', 'e', 'a']
```

See also: Python built-in functions.

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