st study tonight●

Learn ⌄   Tests   Forum   Curious   Learn Web Dev ● ⌄   🔍   Login

PYTHON BASICS ⌄

PYTHON OOPS ⌄

PYTHON STRING ⌄

PYTHON LIST ⌄

PYTHON TUPLE ⌄

PYTHON DATE & TIME ⌄

PYTHON SET ⌄

PYTHON DICTIONARY ⌄

PYTHON FILE AND I/O ⌄

   Unzip File

   Read XML file in python

   Read CSV file in Python

   Read JSON File

   Check File Size

   List all files

   Read YAML in Python

   Read CSV To List

   Append Text To a File

   Check File Exist in Python

   Find files with Certain Extension

   Get Last of Path

   Read File From Line 2

   Search and Replace File Text

   Read First Line

   Get The Home Directory

   Search and Replace Text in File

   Check If File is Empty

PYTHON JSON ⌄

How to Get the Last Part of the Path in Python?

In this article, we will learn how one can get the last part of the path in Python. We will use some built-in functions, and some custom codes as well to better understand the topic.

We will look at two modules of Python - `os` Module and `pathlib` Module. `os` Module in Python provides three different functions to extract the last part of the path. `pathlib` Module in Python also provides a function to get the last part of the path. Let us discuss these functions separately.

Get the Last Part of the Path using OS Module

The `os` module in Python has various functions to interact with the operating system. It provides `os.path` , a submodule of the os module for the manipulation of paths. We will use the three functions of os.path to get the last part of the path in Python.

Example: Use os.path.normpath() and os.path.basename()

This method uses `os.path.normpath()` and `os.path.basename()` together to find the last part of the given path.

`os.path.normpath()` - It removes all the trailing slashes from the given path. It is passed as an argument to os.path.basename().

`os.path.basename()` - It returns the last part of the path.

```python
import os
path = os.path.basename(os.path.normpath('/folderA/folderB/folderC/folderD/'))
print(path)
```

OUTPUT:

```
folderD
```

Example: Use os.path.split()

This method uses `os.path.split()` to find the last part of the path. As the name suggests, it splits the path into two - head part and tail part. Here, the tail is the last pathname component and the head is everything leading up to that. **The tail part will never contain a slash; if the name of the path ends with a slash, the tail will be empty.** This example returns the last part of the path i.e. tail part.

```python
import os

path = '/home/User/Desktop/sample.txt'

# Split the path in head and tail pair
head_tail = os.path.split(path)

# print tail part of the path
print(head_tail[1])
```
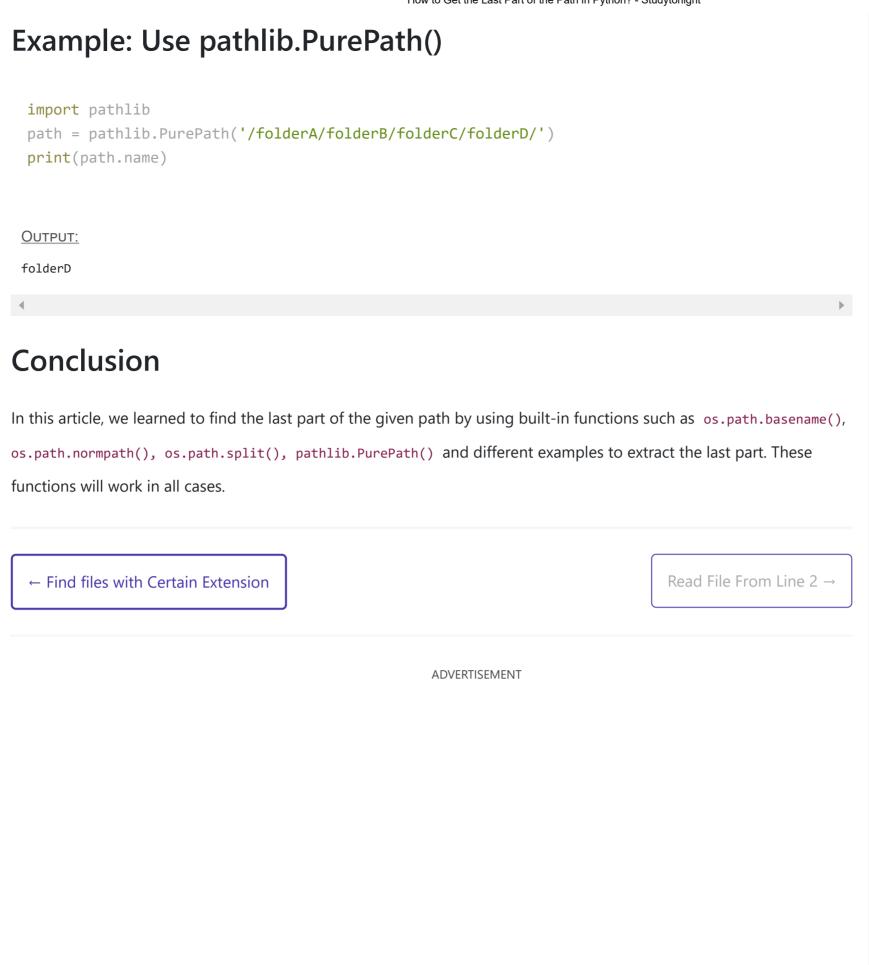
OUTPUT:

```
sample.txt
```
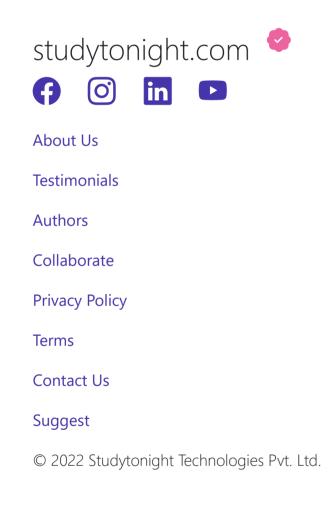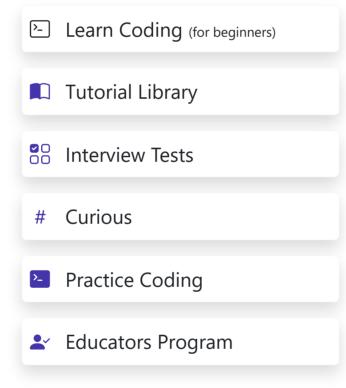
Get the Last Part of the Path using Pathlib Module

The `pathlib` module provides `PurePath()` function to get the last part of the path. `path.name` prints the last part of the given path. If you are confused between Path and PurePath, **PurePath** provides purely computational operations while **Path** or we can say "concrete path" inherits from the PurePath provides I/O operations.

Example: Use pathlib.PurePath()

```python
import pathlib
path = pathlib.PurePath('/folderA/folderB/folderC/folderD/')
print(path.name)
```

<u>O</u>UTPUT:

folderD

Conclusion

In this article, we learned to find the last part of the given path by using built-in functions such as `os.path.basename()`, `os.path.normpath()`, `os.path.split()`, `pathlib.PurePath()` and different examples to extract the last part. These functions will work in all cases.

← Find files with Certain Extension   Read File From Line 2 →

studytonight.com ✅

About Us

Testimonials

Authors

Collaborate

Privacy Policy

Terms

Contact Us

Suggest

© 2022 Studytonight Technologies Pvt. Ltd.

▤ Learn Coding (for beginners)

📖 Tutorial Library

🔲 Interview Tests

\# Curious

▤ Practice Coding

👤 Educators Program

Coding Courses

Learn HTML

Learn CSS

Learn JavaScript

Resources

C Language

C++/STL

Java

DBMS

Python

PHP

Android

Game Development

Data Structure & Alog.

Operating System

Computer Network

Computer Architecture

More...

Interview Tests

Java Interview Tests

Python Interview Tests

DBMS Interview Tests

Linux Interview Tests

Aptitude Tests

GATE 2022 Tests

More...

Apply for Job/Internship