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4 parts:

OS

Os.path

Os.system

Os.walk

Os.sep-> variable

🡪 Unix🡪 / (/home/ec2-user)

>>> print(os.sep)

/

print(path)

print("/home/ec2-user") 🡪 /home/ec2-user

* Windows🡪 \ (C:\SEQ\PYTHON\_PR\OS)

>>> print(os.sep)

\

>>> print("C:\\SEQ\\PYTHON\_PR\\OS\\Test") 🡪 C:\SEQ\PYTHON\_PR\OS\Test

2.

os.getcwd() 🡪 pwd

Windows:

>>> print(os.getcwd())

C:\Python37

>>> os.chdir("C:\\SEQ\PYTHON\_PR\\OS")

>>> os.getcwd()

'C:\\SEQ\\PYTHON\_PR\\OS'

3.

Os.listdir() 🡪 ls in linux

Dir in windows

>>> print(os.getcwd())

C:\SEQ\PYTHON\_PR\OS\Test

>>> print(os.listdir())

['Test1']

5.

Os.mkdir(path)

>>> print(os.listdir())

['Test1']

>>> os.mkdir("narendra")

>>> print(os.listdir())

['narendra', 'Test1']

6.

Os.mkdirs(paths) --? Recursive directory creation

Xyz

--- x

>>> os.makedirs("udemy/xyz/x")

>>> os.listdir()

['narendra', 'Test1', 'udemy']

>>> os.listdir("udemy")

['xyz']

7.

Os.remove(path)

Os.removedirs(path)

Os.rmdir(path)

Os.rename(src,dst)

8.

Os.getenviron()

>>> os.environ

environ({'ALLUSERSPROFILE': 'C:\\ProgramData', 'APPDATA': 'C:\\Users\\naren\\AppData\\Roaming', 'COMMONPROGRAMFILES': 'C:\\Program Files\\Common Files',

9.

>>> print(os.getpid())

8768

>>> print(os.getppid())

16980

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2. OS.PATH module

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Os.path.islink(« myos »)

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Linux :

os\_path.py

«

import os

path="/home/ec2-user/a.py"

print(os.sep) # /

print(os.path.dirname(path)) #/home/ec2-user

print(os.path.basename(path)) #a.py

path1="/home/ec2-user"

path2="b.py"

print(os.path.join(path1,path2)) #('/home/ec2-user/b.py

print(os.path.split(path)) #('/home/ec2-user','a.py')

print(os.path.getsize(path)) #0

«

Os\_path2.py

«

import os

path="/home/ec2-user/a.py"

#if os.path.exists(path):

# print(f"{path} exists") #/home/ec2-user/a.py exists

#else:

# print(f"{path} does not exists")

#if os.path.isfile(path):

# print(f'{path} is a file') #/home/ec2-user/a.py is a file

#else:

# print(f'{path} is not a file')

#if os.path.isdir(path):

# print(f'{path} is a directory')

#else:

# print(f'{path} is not a directory') #/home/ec2-user/a.py is not a directory

path="/home/ec2-user/c.py"

if os.path.islink(path):

print(f"{path} is a link")# /home/ec2-user/c.py is a link

else:

print(f"{path} is not a link")

“

OS.SYSTEM:

Windows:

>>> import os

>>> os.system("dir")

>>> os.system("cls")

Prnt(os.system(“cls”)) 🡪 0

>>> rt=os.system("clsss")

'clsss' is not recognized as an internal or external command,

operable program or batch file.

>>> print(rt)

1

>>> rt=os.system("cls")

>>> print(rt)

0

Linux:

import os

os.system("pwd")

os.system("clear")

prog1.py

import os

cmd='date'

os.system(cmd)

cmd="cls"

os.system(cmd)

$ python os\_system.py

Tue Jun 10 04:36:14 UTC 2025

sh: line 1: cls: command not found

prog3.py

cmd="datee"

rt=os.system(cmd)

if rt==0:

print("Your cmd was success")

else:

print("Your cmd not failed")

Output:

sh: line 1: datee: command not found

Your cmd not failed

Prog3:

cmd="date"

rt=os.system(cmd)

if rt==0:

print("Your cmd was success")

else:

print("Your cmd not failed")

Output:

Tue Jun 10 04:41:28 UTC 2025

Your cmd was success

Platform:

Write a independent script to clear terminal

import sys

import os

import platform

if platform.system()=="Windows":

    os.system("cls")

else:

    os.system("clear")

OS.walk;

find path -name \*.txt

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Create 3 files

Then run the script

[('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test', [], ['1.txt', '2.txt', '3.txt'])]

Create Directory “Hello” and run

[('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test', ['Hello'], ['1.txt', '2.txt', '3.txt']),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello', [], [])]

Create one more directory “Hello1” and run

[('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test', ['Hello', 'Hello1'], ['1.txt', '2.txt', '3.txt']),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello', [], []),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello1', [], [])]

Creating files in “Hello” and try

[('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test', ['Hello', 'Hello1'], ['1.txt', '2.txt', '3.txt']),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello', [], ['4.txt', '5.txt', '6.txt']),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello1', [], [])]

Creating files in “Hello1” and tr

[('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test', ['Hello', 'Hello1'], ['1.txt', '2.txt', '3.txt']),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello', [], ['4.txt', '5.txt', '6.txt']),

('C:\\SEQ\\PYTHON\_PR\\OS\\walk\_test\\Hello1', [], ['7.txt', '8.txt'])]

# for r,d,f in os.walk(path):

#     print(r,d,f)

#C:\SEQ\PYTHON\_PR\OS\walk\_test ['Hello1', 'Hello2'] ['1.txt', '2.txt', '3.txt']

#C:\SEQ\PYTHON\_PR\OS\walk\_test\Hello1 [] ['3.txt', '4.txt', '5.txt']

#C:\SEQ\PYTHON\_PR\OS\walk\_test\Hello2 [] []

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