

OS MODULE



OS Module in Python with Examples

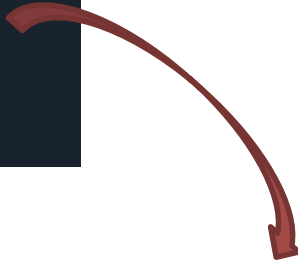
- The OS module in Python provides functions for interacting with the operating system. OS comes under Python's standard utility modules. This module provides a portable way of using operating system-dependent functionality. The `*os*` and `*os.path*` modules include many functions to interact with the file system.

Getting the Current working directory

```
# 1. Python program to explain os.getcwd() method
# importing os module
import os # conda install -c jmc Murray os

# Get the current working
# directory (CWD)
cwd = os.getcwd()

# Print the current working
# directory (CWD)
print("Current working directory:", cwd)
```



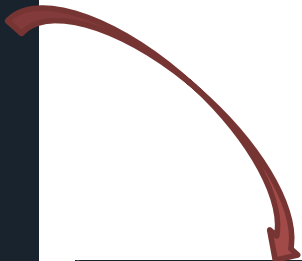
```
...: print("Current working directory:", cwd)
Current working directory: D:\教學+實作\python+DA+AI+DM
```

Changing the Current working directory

```
#2. Python program to change the
# current working directory
import os

# Function to Get the current
# working directory
def current_path():
    print("Current working directory before")
    print(os.getcwd())
    print()

# Driver's code
# Printing CWD before
current_path()
# Changing the CWD
os.chdir('../')
# Printing CWD after
current_path()
```



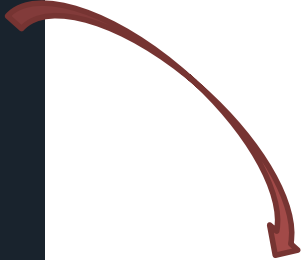
Current working directory before
D:\教學+實作

Creating a Directory

```
#3. Python program to explain os.mkdir() method
# importing os module
import os

# Directory
directory = "GeeksforGeeks"
# Parent Directory path
parent_dir = "D:\\教學+實作\\python+DA+AI+DM"
# Path
path = os.path.join(parent_dir, directory)
# Create the directory
# 'GeeksForGeeks' in
# '/home / User / Documents'
os.mkdir(path)
print("Directory '% s' created" % directory)

# Directory
directory = "Geeks"
# Parent Directory path
parent_dir = "D:\\教學+實作\\python+DA+AI+DM"
# mode
mode = 0o666
# Path
path = os.path.join(parent_dir, directory)
# Create the directory
# 'GeeksForGeeks' in
# '/home / User / Documents'
# with mode 0o666
os.mkdir(path, mode)
print("Directory '% s' created" % directory)
```




Directory 'GeeksforGeeks' created
Directory 'Geeks' created

Listing out Files and Directories

```
#4. Python program to explain os.listdir() method
# importing os module
import os

# Get the list of all files and directories
# in the root directory
path = "c:/"
dir_list = os.listdir(path)

print("Files and directories in '", path, "' :")
|
# print the list
print(dir_list)
```

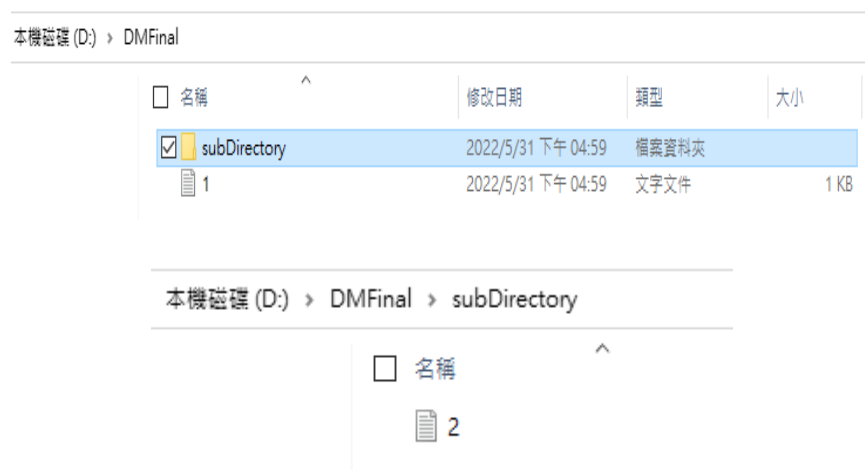


```
Files and directories in ' c:/ ' :
['$Recycle.Bin', '$WinREAgent', '.rnd', 'Documents and Settings', 'DumpStack.log.tmp',
'hiberfil.sys', 'inetpub', 'MSOCache', 'OneDriveTemp', 'pagefile.sys', 'PerfLogs', 'Program
Files', 'Program Files (x86)', 'ProgramData', 'Recovered', 'Recovery', 'swapfile.sys', 'System
Volume Information', 'temp', 'tmp', 'Users', 'Windows', 'xampp']
```



Exercise

- 請使用python **os** package在D槽建立兩層路徑匣: DMFinal 與 subDirectory. 兩層內分別各有一個檔案:1.txt 與 2.txt 。並於此兩個檔案內分別寫入「New file created」。



The End