## ---operation system---

--os. access (path, mode)

检查权限,返回true/false

mode为 $F_OK$ ,测试存在的路径,或者它可以是包含 $R_OK$ , $W_OK和X_OK$ 或者 $R_OK$ , $W_OK和X_OK$ 其中之一或者更多。

- os.F OK: 作为access()的mode参数,测试path是否存在。
- os.R\_OK: 包含在access()的mode参数中 , 测试path是否可读。
- os.W\_OK 包含在access()的mode参数中 , 测试path是否可写。
- os.X\_OK 包含在access()的mode参数中,测试path是否可执行。

--os.getcwd()

访问当前工作目录

--os.getpid()/os.getppid()

获得进程的ID/父进程的ID

--os.chdir(path)

改变工作目录

--os. environ

查看操作系统定义的环境变量和各种东西

--os. environ. get(name)

获得os. environ中的键值对应的值, name可以是'PATH等

--os.listdir(path)

列出目录的文件

--os.mkdir(p)

创个单层目录

--os. makedirs (path)

创个多层目录

--os. name

windows:返回nt

Linux/Unix/MaxOS X:返回posix

--os, uname()

只在Linux/Unix/MaxOS X可以调用的方法,查看更详细的系统信息

--os.remove(file)

删除文件

--os.rmdir(path)

删除单个目录

--os. removedirs (path)

删除多目文件夹

--os. rename (old, new)

改名字

--os. system('command')

打开系统shell(如:"cmd","calc")

--os.walk(path)

```
得到三元组(dirpath, dirnames, filenames)/(当前目录, 当前目录下的文件夹. 当前目录下的文件名)
FE:
>>> os. walk(r'C:\Users\lenovo\Deskton')
<generator object walk at 0x0000007E9104CD58>
>>> for i in os.walk(r'C:\Users\lenovo\Desktop'):
print(i)
('C:\\Users\\lenovo\\Desktop', ['bs4', 'C++', 'Common', 'cracker', 'Data Anylies', 'Games', 'Office', 'Other Library',
'Problems', 'Programming', 'socket模块', 'Sports', 'System', 'Temporary'], ['360软件管家.lnk', 'Breadth search.exe',
'class2.png', 'class3.jpg', 'Daily Duty.txt', 'desktop.ini', 'Lantern.lnk', 'Tem.py', 'TemporaryTxt.txt', 'Thumbs.db', '摊位游戏
董沅鑫. docx', '新建文本文档. txt', '有道云笔记. lnk', '有道云笔记网页剪报. url'])
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'3.1. py','3.2. py','5.1. py','5.5. 2-csv. py','5.3-csv-实战. py','5.4.1-mysql-1. py','6.1编码. py','6.2csv2. py','6.3-zipfile. py',
'7.1-测试.txt','7.1.py','7.1.txt','8.1-1.txt','8.1-2.txt','8.1-测试.txt','8.1.py','9.2.py','9.3.py','test.csv',
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士. lnk', '360极速浏览器. lnk', '360软件管家. lnk', 'Adobe Creative Cloud. lnk', 'Dr. COM宽带认证客户端. lnk', 'Evernote. lnk', 'Google
Chrome. lnk', 'JetBrains PyCharm Community Edition 2016. 3. 2. lnk', 'QQ音乐. lnk', 'Thumbs. db', 'WiFi共享大师. lnk', '听歌识曲. lnk',
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讯QQ. lnk', '迅雷影音. lnk', '迅雷极速版. lnk', '阿里旺旺. lnk'])
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'p27. py', 'p27. txt', 'p35. py', 'p37. py'])
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pandas_code.rar', '第三课PPT-pandas.pdf', '第二课 numpy_code.rar'])
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'summarizing and computing descriptive statistics'], [])
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'linear_algebra.py', 'random_number_generation.py', 'universal_functions.py', '第二课更新版-numpy.pdf'])
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'methods_for_boolean_arrays.py', 'sorting.py', 'unique_and_other_set_logic.py'])
```

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Module Docs (64-bit).lnk'])
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端口扫描. py', '客户端. py', '接收邮件. py', '服务端. py', '端口扫描. py', '线程1. py', '线程2. py'])
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Updates.lnk', 'Lenovo VeriFace Pro.lnk', 'OneKey Recovery.lnk', 'PC语点.lnk', '用户手册.lnk'])
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('C:\Users\lenovo\Desktop\Temporary\\1 HelloTest\\grlib\\rvmdk', [], ['grlib.lib'])
('C:\\Users\\lenovo\\Desktop\\Temporary\\1 HelloTest\\grlib\\sourcerygxx', [], ['libgr.a'])
('C:\\Users\\lenvo\\Desktop\\Temporary\\1 HelloTest\\inc', [], ['asmdefs.h', 'cr_project.xml', 'hw_adc.h', 'hw_can.h',
'hw_comp.h', 'hw_epi.h', 'hw_ethernet.h', 'hw_flash.h', 'hw_gpio.h', 'hw_hibernate.h', 'hw_i2c.h', 'hw_i2s.h', 'hw_ints.h',
'hw_memmap.h', 'hw_nvic.h', 'hw_pwm.h', 'hw_qei.h', 'hw_ssi.h', 'hw_sysctl.h', 'hw_timer.h', 'hw_types.h', 'hw_uart.h',
'hw_udma.h', 'hw_usb.h', 'hw_watchdog.h', 'inc.sgxx', 'lm3s9b96.h'])
('C:\\Users\\lenovo\\Desktop\\Temporary\\201612712附件2: 1学分以上课程线下期末考试考场具体安排', [], ['1. 《走进性科学》线下考试考
场安排表, x1sx'])
('C:\\Users\\lenovo\\Desktop\\Temporary\\函数库', ['函数'], ['主函数.cpp'])
('C:\\Users\\lenovo\\Desktop\\Temporary\\函数库\\函数', [], ['16进制转10进制.cpp', 'add.cpp', 'isPalindrome.cpp', '三数求最
大. cpp', '冒泡排序. cpp', '删除字符. cpp', '回文数. cpp', '字符串连接. cpp', '字符串长度. cpp', '截取字符串. cpp', '数组逆序. cpp', '斐
波那契.cpp', '最大公约数.cpp', '素数判定.cpp', '约瑟夫环.cpp', '质数因子.cpp', '选择排序.cpp', '阶乘和.cpp', '韩信点兵.cpp'])
```

```
('C:\\Users\\lenovo\\Desktop\\Temporary\\新建文件夹', ['funs'], ['main.cpp', 'main.exe'])
('C:\\Users\\lenovo\\Desktop\\Temporary\\新建文件夹\\funs', [], ['add.cpp'])
>>>
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