

1.学习使用 ls 命令，检查自己计算机最常用的 “桌面”、“下载”、“文档” 等文件夹的真实的文件系统路径是什么

```
MINGW64/c/Users/DELL
DELL@DESKTOP-I5UNFG MINGW64 ~
$ ls
「开始」菜单@           NetHood@
'3D Objects'/'          NTUSER.DAT
ado/                    ntuser.dat.LOG1
anaconda3/             ntuser.dat.LOG2
AppData/               NTUSER.DAT{0c50aa1d-fe2f-11e9-aa81-fcb8e8d09d2}.TM.blf
'Application Data'@    NTUSER.DAT{0c50aa1d-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000001.regtrans-ms
Contacts/             NTUSER.DAT{0c50aa1d-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000002.regtrans-ms
Cookies@              ntuser.ini
Desktop/              OneDrive/
Documents/            PrintHood@
Downloads/            Recent@
Favorites/            repo/
'Flash Center'/'      'Saved Games'/
IntelGraphicsProfiles/ Searches/
Links/                SendTo@
'Local Settings'@     Templates@
MicrosoftEdgeBackups/ Videos/
Music/                'WPS Cloud Files'/
'My Documents'@       Zotero/

DELL@DESKTOP-I5UNFG MINGW64 ~
$ pwd
/c/Users/DELL

DELL@DESKTOP-I5UNFG MINGW64 ~
$
```

ls 命令理解桌面，pwd 当前工作做路径

```
MINGW64/c/Users/DELL
DELL@DESKTOP-I5UNFG MINGW64 ~/Desktop
$ cd ..

DELL@DESKTOP-I5UNFG MINGW64 ~
$ ls
「开始」菜单@           NetHood@
'3D Objects'/'          NTUSER.DAT
ado/                    ntuser.dat.LOG1
anaconda3/             ntuser.dat.LOG2
AppData/               NTUSER.DAT{0c50aa1d-fe2f-11e9-aa81-fcb8e8d09d2}.TM.blf
'Application Data'@    NTUSER.DAT{0c50aa1d-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000001.regtrans-ms
Contacts/             NTUSER.DAT{0c50aa1d-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000002.regtrans-ms
Cookies@              ntuser.ini
Desktop/              OneDrive/
Documents/            PrintHood@
Downloads/            Recent@
Favorites/            repo/
'Flash Center'/'      'Saved Games'/
IntelGraphicsProfiles/ Searches/
Links/                SendTo@
'Local Settings'@     Templates@
MicrosoftEdgeBackups/ Videos/
Music/                'WPS Cloud Files'/
'My Documents'@       Zotero/

DELL@DESKTOP-I5UNFG MINGW64 ~
$ cd Downloads/

DELL@DESKTOP-I5UNFG MINGW64 ~/Downloads
$ pwd
/c/Users/DELL/Downloads

DELL@DESKTOP-I5UNFG MINGW64 ~/Downloads
$ ls
*双层次博弈*理论的兴起和发展_王传兴.pdf
'15647NeonBand_RarZipExtractorPro_g3b9hip9bdemw!App'/
20190904083244347079.doc
20200717091449963366.doc
'2020春-新闻18-2班,投资18-2班,精算18-1班,汉语18-1班,金融18-[1-3]班_黄乃欣_黄乃欣20180501472.docx'
```

cd . 当前文件夹 cd ..回到上一级工作页面



写程序最好显示文件拓展名

Windows 没有根目录，从盘符开始

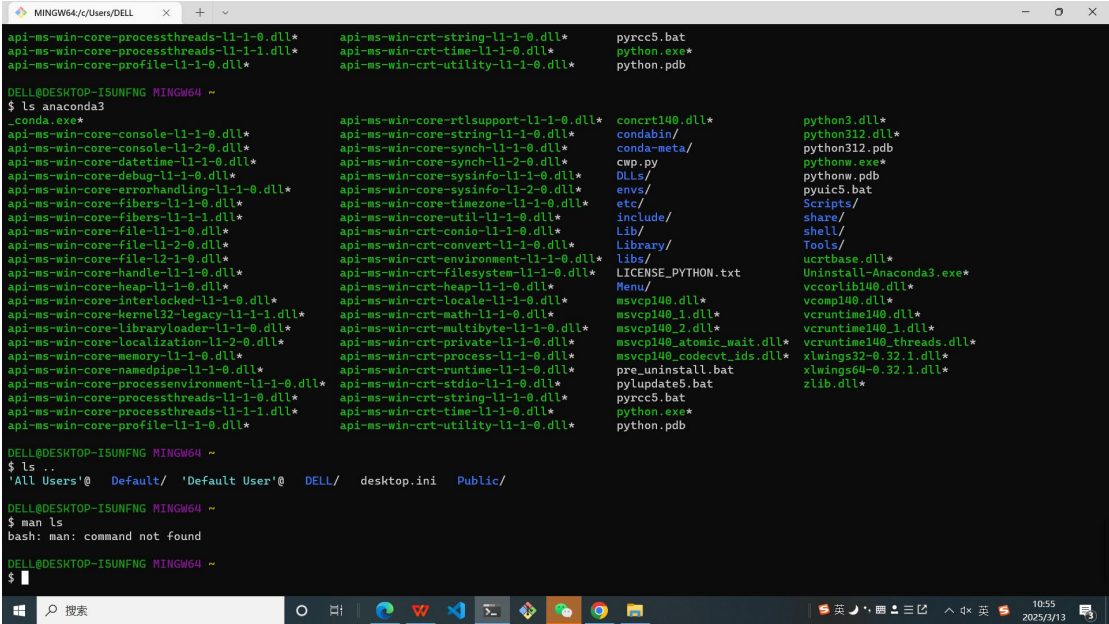
```
DELL@DESKTOP-I5UNFG MINGW64 ~
$ cd /

DELL@DESKTOP-I5UNFG MINGW64 /
$ ls
bin/  cmd/  dev/  etc/  git-bash.exe*  git-cmd.exe*  LICENSE.txt  mingw64/  proc/  ReleaseNotes.html  tmp/  unins000.dat  unins000.exe*  unins000.msg  usr/
```

cd /根目录

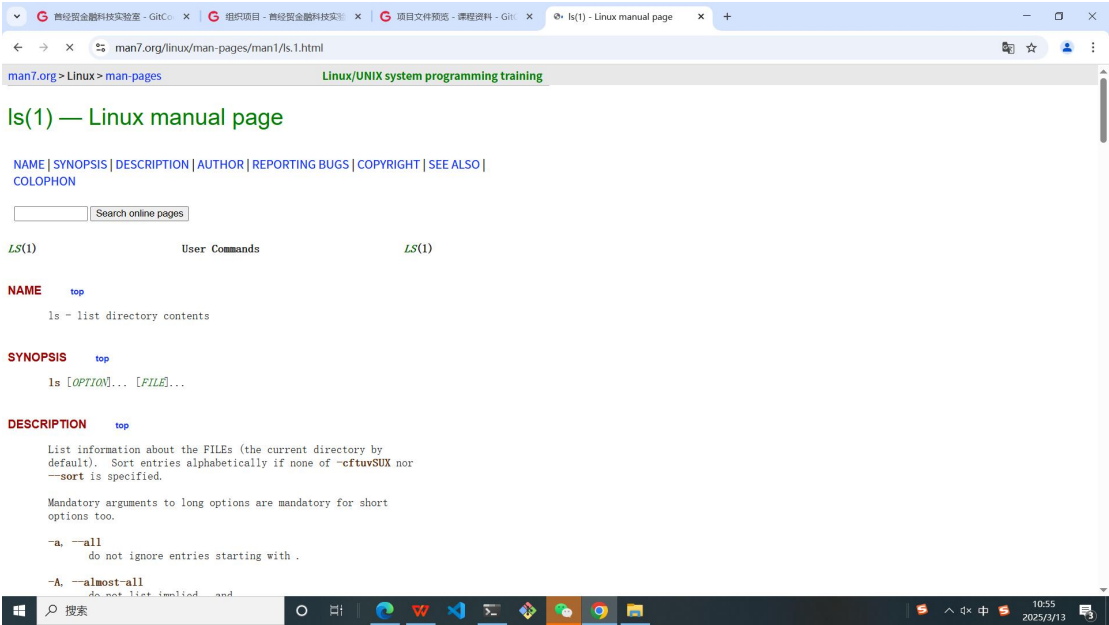
```
DELL@DESKTOP-ISUNFG MINGW64 /
$ cat /c/Users/DELL/Desktop/ABC.txt
hello
DELL@DESKTOP-ISUNFG MINGW64 /
$ cat aaa
cat: aaa: No such file or directory
DELL@DESKTOP-ISUNFG MINGW64 /
$ ls
bin/  cmd/  dev/  etc/  git-bash.exe*  git-cmd.exe*  LICENSE.txt  mingw64/  proc/  ReleaseNotes.html  tmp/  unins000.dat  unins000.exe*  unins000.msg  usr/
```

加/绝对路径 不加/相对路径 相对路径要确定启动的目录
/c/Users/DELL 用/开头或分割的是 Unix 路径 Windows 是\



```
MINGW64/c/Users/DELL
$ ls anaconda3
conda.exe*
api-ms-win-core-console-l1-1-0.dll*
api-ms-win-core-console-l1-2-0.dll*
api-ms-win-core-datetime-l1-1-0.dll*
api-ms-win-core-debug-l1-1-0.dll*
api-ms-win-core-errorhandling-l1-1-0.dll*
api-ms-win-core-fibers-l1-1-0.dll*
api-ms-win-core-file-l1-1-0.dll*
api-ms-win-core-file-l1-2-0.dll*
api-ms-win-core-file-l2-1-0.dll*
api-ms-win-core-handle-l1-1-0.dll*
api-ms-win-core-heap-l1-1-0.dll*
api-ms-win-core-interlocked-l1-1-0.dll*
api-ms-win-core-kernel32-legacy-l1-1-0.dll*
api-ms-win-core-libraryloader-l1-1-0.dll*
api-ms-win-core-localization-l1-2-0.dll*
api-ms-win-core-memory-l1-1-0.dll*
api-ms-win-core-namedpipe-l1-1-0.dll*
api-ms-win-core-processenvironment-l1-1-0.dll*
api-ms-win-core-processthreads-l1-1-0.dll*
api-ms-win-core-profile-l1-1-0.dll*
api-ms-win-core-rtlsupport-l1-1-0.dll*
api-ms-win-core-string-l1-1-0.dll*
api-ms-win-core-synch-l1-1-0.dll*
api-ms-win-core-synch-l1-2-0.dll*
api-ms-win-core-sysinfo-l1-1-0.dll*
api-ms-win-core-sysinfo-l1-2-0.dll*
api-ms-win-core-timezone-l1-1-0.dll*
api-ms-win-core-util-l1-1-0.dll*
api-ms-win-crt-conio-l1-1-0.dll*
api-ms-win-crt-convert-l1-1-0.dll*
api-ms-win-crt-environment-l1-1-0.dll*
api-ms-win-crt-filesystem-l1-1-0.dll*
api-ms-win-crt-heap-l1-1-0.dll*
api-ms-win-crt-locale-l1-1-0.dll*
api-ms-win-crt-math-l1-1-0.dll*
api-ms-win-crt-multibyte-l1-1-0.dll*
api-ms-win-crt-private-l1-1-0.dll*
api-ms-win-crt-process-l1-1-0.dll*
api-ms-win-crt-runtimel1-1-0.dll*
api-ms-win-crt-stdio-l1-1-0.dll*
api-ms-win-crt-string-l1-1-0.dll*
api-ms-win-crt-time-l1-1-0.dll*
api-ms-win-crt-utility-l1-1-0.dll*
pyrcc5.bat
python.exe*
python.pdb
concr140.dll*
condabin/
conda-meta/
cwp.py
DLLs/
envs/
etc/
include/
lib/
library/
libs/
LICENSE_PYTHON.txt
Menu/
msvcpl140.dll*
msvcpl140_1.dll*
msvcpl140_2.dll*
msvcpl140_atomic_wait.dll*
msvcpl140_codecvt_ids.dll*
pre_uninstall.bat
pylupdate5.bat
pyrcc5.bat
python.exe*
python.pdb
python3.dll*
python312.dll*
python312.pdb
pythonw.exe*
pythonw.pdb
pyuic5.bat
Scripts/
share/
shell/
Tools/
ucrtbase.dll*
Uninstall-Anaconda3.exe*
vccorlib140.dll*
vcomp140.dll*
vcruntime140.dll*
vcruntime140_1.dll*
vcruntime140_threads.dll*
xlwings32-0.32.1.dll*
xlwings64-0.32.1.dll*
zlib.dll*
```

ls 后有空格 空格后的是参数 下图为 ls 操作手册



ls 和 ls.是一回事

```
MINGW64~/Users/DELL
$ man ls
bash: man: command not found

DELL@DESKTOP-1SUNFNG MINGW64 ~
$ ls -la
./          ado/          Links/          ntuser.ini
../         anaconda3/   'Local Settings'@
.conda/     AppData/     MicrosoftEdgeBackups/
.gitconfig  'Application Data'@
.ipynthn/   Cookies@     Music/
.lesshst    Desktop/     'My Documents'@
.spss/      Documents/   NetHood@
.ssh/       Downloads/   NTUSER.DAT
.vscode/    'Flash Center'/'
[开始] 菜单@ 'Flash Center'/'
'3D Objects'/' IntelGraphicsProfiles/

DELL@DESKTOP-1SUNFNG MINGW64 ~
$ ls -all
./          ado/          Links/          ntuser.ini
../         anaconda3/   'Local Settings'@
.conda/     AppData/     MicrosoftEdgeBackups/
.gitconfig  'Application Data'@
.ipynthn/   Cookies@     Music/
.lesshst    Desktop/     'My Documents'@
.spss/      Documents/   NetHood@
.ssh/       Downloads/   NTUSER.DAT
.vscode/    'Flash Center'/'
[开始] 菜单@ 'Flash Center'/'
'3D Objects'/' IntelGraphicsProfiles/

DELL@DESKTOP-1SUNFNG MINGW64 ~
$ ls Desktop/ Downloads/
Desktop/:
'$结果.xlsx'      '【初稿】(1).pdf'      '分析师关注度文献(2)(1).xlsx'
'$1 在古希腊艺术的风格与特点.doc' '$全部影片-1.docx'    '分析师关注度相关资料/

MINGW64~/Users/DELL
lwxrwxrwx 1 DELL 197121 54 11月 3 2019 SendTo -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/SendTo/
lwxrwxrwx 1 DELL 197121 57 11月 3 2019 Templates -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Templates/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Videos/
drwxr-xr-x 1 DELL 197121 0 3月 13 07:57 'WPS Cloud Files'/
drwxr-xr-x 1 DELL 197121 0 12月 27 19:26 Zotero/

DELL@DESKTOP-1SUNFNG MINGW64 ~
$ ls -al
total 16639
drwxr-xr-x 1 DELL 197121 0 3月 11 20:30 ./
drwxr-xr-x 1 DELL 197121 0 11月 3 2019 ../
drwxr-xr-x 1 DELL 197121 0 4月 12 2024 .android/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:10 .conda/
-rw-r--r-- 1 DELL 197121 183 3月 6 21:35 .gitconfig
drwxr-xr-x 1 DELL 197121 0 3月 6 20:00 .ipynthn/
-rw-r--r-- 1 DELL 197121 20 3月 6 21:39 .lesshst
drwxr-xr-x 1 DELL 197121 0 4月 17 2020 .spss/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:46 .ssh/
drwxr-xr-x 1 DELL 197121 0 3月 6 16:20 .vscode/
lwxrwxrwx 1 DELL 197121 58 11月 3 2019 [开始] 菜单 -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Start Menu/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 '3D Objects'/'
drwxr-xr-x 1 DELL 197121 0 4月 23 2024 ado/
drwxr-xr-x 1 DELL 197121 0 3月 6 19:42 anaconda3/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 AppData/
lwxrwxrwx 1 DELL 197121 29 11月 3 2019 'Application Data' -> /c/Users/DELL/AppData/Roaming/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Contacts/
lwxrwxrwx 1 DELL 197121 57 11月 3 2019 Cookies -> /c/Users/DELL/AppData/Local/Microsoft/Windows/INetCookies/
drwxr-xr-x 1 DELL 197121 0 3月 13 09:02 Desktop/
drwxr-xr-x 1 DELL 197121 0 10月 9 15:55 Documents/
drwxr-xr-x 1 DELL 197121 0 3月 6 18:49 Downloads/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 Favorites/
drwxr-xr-x 1 DELL 197121 0 4月 7 2020 'Flash Center'/'
drwxr-xr-x 1 DELL 197121 0 3月 13 07:55 IntelGraphicsProfiles/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 Links/
lwxrwxrwx 1 DELL 197121 27 11月 3 2019 'Local Settings' -> /c/Users/DELL/AppData/Local/
drwxr-xr-x 1 DELL 197121 0 9月 5 2019 MicrosoftEdgeBackups/
drwxr-xr-x 1 DELL 197121 0 9月 9 2024 Music/
lwxrwxrwx 1 DELL 197121 23 11月 3 2019 'My Documents' -> /c/Users/DELL/Documents/
lwxrwxrwx 1 DELL 197121 0 3月 6 2019 NetHood -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Network Shortcuts/
-rw-r--r-- 1 DELL 197121 10223616 3月 11 20:30 NTUSER.DAT
```

第一列是 d，就是文件夹，是-就是文件， l 是快捷方式
rwxr-xr-x 其中 r 是 read，w 是 write，x 就是 execute，多用户权限不同

```
MINGW64~/Users/DELL
$ ls -alh
total 16M
drwxr-xr-x 1 DELL 197121 0 3月 11 20:30 ./
drwxr-xr-x 1 DELL 197121 0 11月 3 2019 ../
drwxr-xr-x 1 DELL 197121 0 4月 12 2024 .android/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:10 .conda/
-rw-r--r-- 1 DELL 197121 183 3月 6 21:35 .gitconfig
drwxr-xr-x 1 DELL 197121 0 3月 6 20:00 .ipynthn/
-rw-r--r-- 1 DELL 197121 20 3月 6 21:39 .lesshst
drwxr-xr-x 1 DELL 197121 0 4月 17 2020 .spss/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:46 .ssh/
drwxr-xr-x 1 DELL 197121 0 3月 6 16:20 .vscode/
lwxrwxrwx 1 DELL 197121 58 11月 3 2019 [开始] 菜单 -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Start Menu/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 '3D Objects'/'
drwxr-xr-x 1 DELL 197121 0 4月 23 2024 ado/
drwxr-xr-x 1 DELL 197121 0 3月 6 19:42 anaconda3/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 AppData/
lwxrwxrwx 1 DELL 197121 29 11月 3 2019 'Application Data' -> /c/Users/DELL/AppData/Roaming/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Contacts/
lwxrwxrwx 1 DELL 197121 57 11月 3 2019 Cookies -> /c/Users/DELL/AppData/Local/Microsoft/Windows/INetCookies/
drwxr-xr-x 1 DELL 197121 0 3月 13 11:20 Desktop/
drwxr-xr-x 1 DELL 197121 0 10月 9 15:55 Documents/
drwxr-xr-x 1 DELL 197121 0 3月 6 18:49 Downloads/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 Favorites/
drwxr-xr-x 1 DELL 197121 0 4月 7 2020 'Flash Center'/'
drwxr-xr-x 1 DELL 197121 0 3月 13 07:55 IntelGraphicsProfiles/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 Links/
lwxrwxrwx 1 DELL 197121 27 11月 3 2019 'Local Settings' -> /c/Users/DELL/AppData/Local/
drwxr-xr-x 1 DELL 197121 0 9月 5 2019 MicrosoftEdgeBackups/
drwxr-xr-x 1 DELL 197121 0 9月 9 2024 Music/
lwxrwxrwx 1 DELL 197121 23 11月 3 2019 'My Documents' -> /c/Users/DELL/Documents/
lwxrwxrwx 1 DELL 197121 65 11月 3 2019 NetHood -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Network Shortcuts/
-rw-r--r-- 1 DELL 197121 9.8M 3月 11 20:30 NTUSER.DAT
-rw-r--r-- 1 DELL 197121 832M 11月 3 2019 ntuser.dat.LOG1
-rw-r--r-- 1 DELL 197121 3.4M 11月 3 2019 ntuser.dat.LOG2
-rw-r--r-- 1 DELL 197121 64K 4月 27 2024 NTUSER.DAT{0c50aaid-fe2f-11e9-aa81-fcb8e8d09d2}.TM.blf
-rw-r--r-- 1 DELL 197121 512K 4月 27 2024 NTUSER.DAT{0c50aaid-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000001.regtrans-ms
-rw-r--r-- 1 DELL 197121 512K 11月 3 2019 NTUSER.DAT{0c50aaid-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000002.regtrans-ms
-rw-r--r-- 1 DELL 197121 20 11月 3 2019 ntuser.ini
-rw-r--r-- 1 DELL 197121 0 8月 14 2021 OneDrive/
```

ls -alh 加上 h，文件大小更好读

```
MINGW64/c/Users/DELL
0 lrwxrwxrwx 1 DELL 197121 57 11月 3 2019 Templates -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Templates/
0 drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Videos/
0 drwxr-xr-x 1 DELL 197121 0 3月 13 07:57 'WPS Cloud Files'/
4.0K drwxr-xr-x 1 DELL 197121 0 12月 27 19:26 Zotero/

DELL@DESKTOP-I5UNFNG MINGW64 ~
$ ls -alhS
total 17M
-rw-r--r-- 1 DELL 197121 9.8M 3月 11 20:30 NTUSER.DAT
-rw-r--r-- 1 DELL 197121 3.4M 11月 3 2019 ntuser.dat.LOG2
-rw-r--r-- 1 DELL 197121 1.7M 11月 3 2019 ntuser.dat.LOG1
-rw-r--r-- 1 DELL 197121 512K 4月 27 2024 NTUSER.DAT{0c50aald-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000001.regtrans-ms
-rw-r--r-- 1 DELL 197121 512K 11月 3 2019 NTUSER.DAT{0c50aald-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000002.regtrans-ms
-rw-r--r-- 1 DELL 197121 64K 4月 27 2024 NTUSER.DAT{0c50aald-fe2f-11e9-aa81-fcb8e8d09d2}.TM.blf
-rw-r--r-- 1 DELL 197121 183 3月 6 21:35 .gitconfig
lrwxrwxrwx 1 DELL 197121 65 11月 3 2019 NetHood -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Network Shortcuts/
lrwxrwxrwx 1 DELL 197121 65 11月 3 2019 PrintHood -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Printer Shortcuts/
lrwxrwxrwx 1 DELL 197121 58 11月 3 2019 [开始] 菜单 -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Start Menu/
lrwxrwxrwx 1 DELL 197121 57 11月 3 2019 Cookies -> /c/Users/DELL/AppData/Local/Microsoft/Windows/INetCookies/
lrwxrwxrwx 1 DELL 197121 54 11月 3 2019 Templates -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Templates/
lrwxrwxrwx 1 DELL 197121 54 11月 3 2019 Recent -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/Recent/
lrwxrwxrwx 1 DELL 197121 54 11月 3 2019 SendTo -> /c/Users/DELL/AppData/Roaming/Microsoft/Windows/SendTo/
lrwxrwxrwx 1 DELL 197121 29 11月 3 2019 'Application Data' -> /c/Users/DELL/AppData/Roaming/
lrwxrwxrwx 1 DELL 197121 27 11月 3 2019 'Local Settings' -> /c/Users/DELL/AppData/Local/
lrwxrwxrwx 1 DELL 197121 23 11月 3 2019 'My Documents' -> /c/Users/DELL/Documents/
-rw-r--r-- 1 DELL 197121 20 3月 6 21:39 .lessht
-rw-r--r-- 1 DELL 197121 20 11月 3 2019 ntuser.ini
drwxr-xr-x 1 DELL 197121 0 3月 11 20:30 ./
drwxr-xr-x 1 DELL 197121 0 11月 3 2019 ../
drwxr-xr-x 1 DELL 197121 0 4月 12 2024 .android/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:10 .conda/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:00 .ipython/
drwxr-xr-x 1 DELL 197121 0 4月 17 2020 .spss/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:46 .ssh/
drwxr-xr-x 1 DELL 197121 0 3月 6 16:20 .vscode/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 '3D Objects'/
drwxr-xr-x 1 DELL 197121 0 4月 23 2024 ado/
drwxr-xr-x 1 DELL 197121 0 3月 6 19:42 anaconda3/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 AppData/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Contacts/
```

ls -alhS 按照文件大小排序

```
MINGW64/c/Users/DELL
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Videos/
drwxr-xr-x 1 DELL 197121 0 3月 13 07:57 'WPS Cloud Files'/
drwxr-xr-x 1 DELL 197121 0 12月 27 19:26 Zotero/

DELL@DESKTOP-I5UNFNG MINGW64 ~
$ ls -alht
total 17M
drwxr-xr-x 1 DELL 197121 0 3月 13 11:34 Desktop/
drwxr-xr-x 1 DELL 197121 0 3月 13 07:57 'WPS Cloud Files'/
drwxr-xr-x 1 DELL 197121 0 3月 13 07:55 IntelGraphicsProfiles/
-rw-r--r-- 1 DELL 197121 9.8M 3月 11 20:30 NTUSER.DAT
drwxr-xr-x 1 DELL 197121 0 3月 11 20:30 /
-rw-r--r-- 1 DELL 197121 20 3月 6 21:39 .lessht
-rw-r--r-- 1 DELL 197121 183 3月 6 21:35 .gitconfig
drwxr-xr-x 1 DELL 197121 0 3月 6 21:05 repo/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:46 .ssh/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:10 .conda/
drwxr-xr-x 1 DELL 197121 0 3月 6 20:00 .ipython/
drwxr-xr-x 1 DELL 197121 0 3月 6 19:42 anaconda3/
drwxr-xr-x 1 DELL 197121 0 6月 19:49 Downloads/
drwxr-xr-x 1 DELL 197121 0 3月 6 16:20 .vscode/
drwxr-xr-x 1 DELL 197121 0 12月 27 19:26 Zotero/
drwxr-xr-x 1 DELL 197121 0 10月 9 15:55 Documents/
drwxr-xr-x 1 DELL 197121 0 9月 9 2024 Music/
-rw-r--r-- 1 DELL 197121 64K 4月 27 2024 NTUSER.DAT{0c50aald-fe2f-11e9-aa81-fcb8e8d09d2}.TM.blf
-rw-r--r-- 1 DELL 197121 512K 4月 27 2024 NTUSER.DAT{0c50aald-fe2f-11e9-aa81-fcb8e8d09d2}.TMContainer000000000000000001.regtrans-ms
drwxr-xr-x 1 DELL 197121 0 4月 23 2024 ado/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 .android/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 AppData/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 Favorites/
drwxr-xr-x 1 DELL 197121 0 12月 8 2021 Links/
drwxr-xr-x 1 DELL 197121 0 8月 14 2021 OneDrive/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 'Saved Games'/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Searches/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Videos/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 Contacts/
drwxr-xr-x 1 DELL 197121 0 5月 26 2021 '3D Objects'/
drwxr-xr-x 1 DELL 197121 0 4月 17 2020 .spss/
drwxr-xr-x 1 DELL 197121 0 4月 7 2020 'Flash Center'/
-rw-r--r-- 1 DELL 197121 20 11月 3 2019 ntuser.ini
```

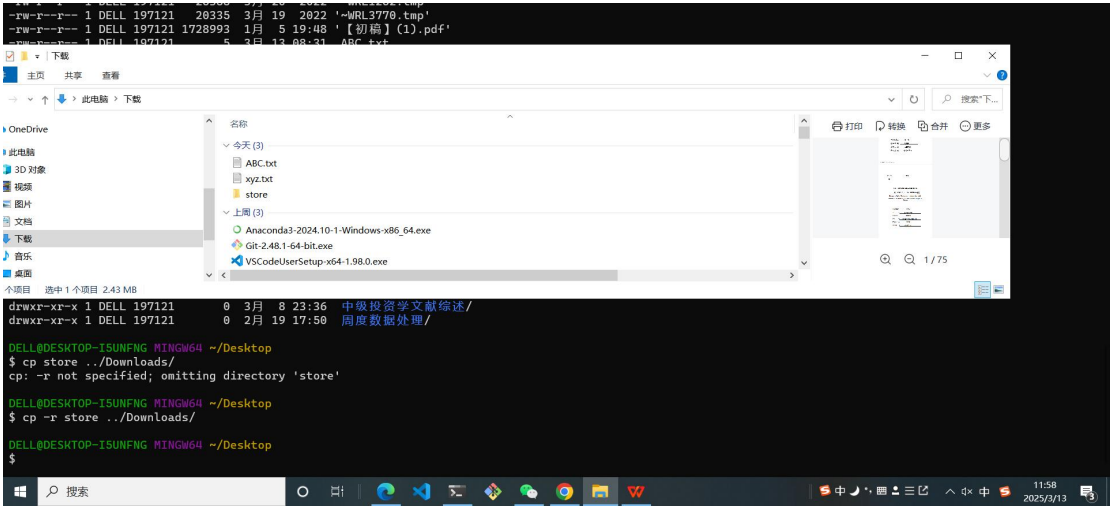
ls -alht 按照修改时间排序

2. 使用 cp 命令复制文件/文件夹，使用 mv 命令移动（重命名）文件/文件夹

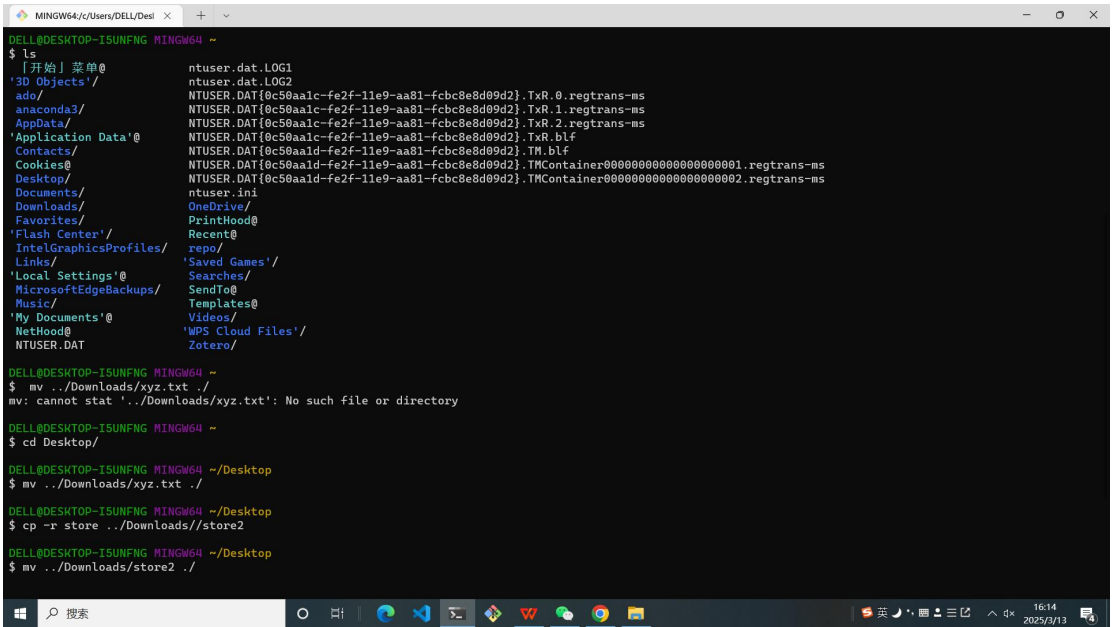
```
DELL@DESKTOP-I5UNFNG MINGW64 ~/Desktop
$ cat ABC.txt
hello
DELL@DESKTOP-I5UNFNG MINGW64 ~/Desktop
$ cp ABC.txt ../Downloads/

DELL@DESKTOP-I5UNFNG MINGW64 ~/Desktop
$ cp ABC.txt ../Downloads/xyz.txt
```


cp 复制文件



-r 是 cp 命令的选项开关，复制文件夹。



mv 移动文件夹

3. 使用 mkdir 命令创建一个名为 myproject 的新文件夹，然后从图形界面（比如 Windows 的“文件资源管理器”、macOS 的“访达”）复制粘贴某些文件/文件夹进去，用 ls 命令查看复制进去的文件/文件夹的大小和修改时间，最后用 rm 命令删除这些文件/文件夹

```
MINGW64/c/Users/DELL/Desi x + v
-rwxr-xr-x 1 DELL 197121 2409 4月 19 2024 'WPS Office.lnk'*
-rw-r--r-- 1 DELL 197121 5 3月 13 11:49 xyz.txt
-rwxr-xr-x 1 DELL 197121 1051 9月 13 2019 百度网盘.lnk*
-rw-r--r-- 1 DELL 197121 100363 3月 13 15:48 分析师关注度对流动性同步性的影.docx
-rw-r--r-- 1 DELL 197121 23850 3月 13 07:57 '分析师关注度文献(2)(1).xlsx'
drwxr-xr-x 1 DELL 197121 0 2月 12 22:03 分析师关注度相关文献/
drwxr-xr-x 1 DELL 197121 0 3月 13 15:43 分析师数据处理/
drwxr-xr-x 1 DELL 197121 0 2月 28 16:36 分析师数据下载/
-rw-r--r-- 1 DELL 197121 78253 2月 20 19:59 工具变量.rtf
drwxr-xr-x 1 DELL 197121 0 12月 24 20:00 共性/
drwxr-xr-x 1 DELL 197121 0 2月 7 21:45 稀疏共性数据及代码/
drwxr-xr-x 1 DELL 197121 0 2月 19 17:50 周度数据处理/

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ ls -alh myproject/
total 49K
drwxr-xr-x 1 DELL 197121 0 3月 13 16:45 ./
drwxr-xr-x 1 DELL 197121 0 3月 13 16:44 ../
drwxr-xr-x 1 DELL 197121 0 3月 13 11:51 store/
drwxr-xr-x 1 DELL 197121 0 3月 13 16:12 store2/
-rw-r--r-- 1 DELL 197121 5 3月 13 11:49 xyz.txt

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm xyz.txt

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm -r myproject/

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm store
rm: cannot remove 'store': Is a directory

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm -r store

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm -rf store2

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$
```

rm 删除命令，rm -r 删除文件夹，加上 f 强制删除

4. 使用 df 命令查看磁盘剩余空间，使用 du 命令查看文件/文件夹占用的磁盘空间

```
MINGW64/c/Users x + v
drwxr-xr-x 1 DELL 197121 0 3月 13 16:44 ./
drwxr-xr-x 1 DELL 197121 0 3月 13 11:51 store/
drwxr-xr-x 1 DELL 197121 0 3月 13 16:12 store2/
-rw-r--r-- 1 DELL 197121 5 3月 13 11:49 xyz.txt

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm xyz.txt

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm -r myproject/

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm store
rm: cannot remove 'store': Is a directory

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm -r store

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ rm -rf store2

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
C:/Program Files/Git 123751668 88930008 34821660 72% /
D: 460799996 148925100 311874896 33% /d
E: 515959804 60243408 455716396 12% /e

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ df -h
Filesystem      Size  Used Avail Use% Mounted on
C:/Program Files/Git 119G   85G   34G  72% /
D: 440G  143G  298G  33% /d
E: 493G   58G  435G  12% /e

DELL@DESKTOP-ISUNFNG MINGW64 ~/Desktop
$ ls -lh
total 4.7M
-rw-r--r-- 1 DELL 197121 162 2月 22 2022 '--$ Microsoft Word 文档.docx'
-rw-r--r-- 1 DELL 197121 162 7月 4 2020 '--$1 东方插花艺术的风格与特点.doc'
```

```
932 ./Library/include/boost/fusion/tuple/detail/preprocessed
936 ./Library/include/boost/fusion/tuple/detail
976 ./Library/include/boost/fusion/tuple
4 ./Library/include/boost/fusion/view/detail
444 ./Library/include/boost/fusion/view/filter_view/detail
52 ./Library/include/boost/fusion/view/filter_view
12 ./Library/include/boost/fusion/view/flatten_view
4 ./Library/include/boost/fusion/view/identity_view
52 ./Library/include/boost/fusion/view/iterator_range/detail
56 ./Library/include/boost/fusion/view/iterator_range
36 ./Library/include/boost/fusion/view/joint_view/detail
48 ./Library/include/boost/fusion/view/joint_view
4 ./Library/include/boost/fusion/view/nview/detail/cpp03
60 ./Library/include/boost/fusion/view/nview/detail
68 ./Library/include/boost/fusion/view/nview
20 ./Library/include/boost/fusion/view/repetitive_view/detail
32 ./Library/include/boost/fusion/view/repetitive_view
56 ./Library/include/boost/fusion/view/reverse_view/detail
64 ./Library/include/boost/fusion/view/reverse_view

DELL@DESKTOP-I5UNFG MINGW64 ~/anaconda3
$ du -d 1
11700 ./conda-meta
23 ./condabin
3552 ./DLLs
0 ./envs
35 ./etc
1726 ./include

DELL@DESKTOP-I5UNFG MINGW64 ~/anaconda3
$ du -d 0
du: invalid maximum depth '0.'
Try 'du --help' for more information.

DELL@DESKTOP-I5UNFG MINGW64 ~/anaconda3
$ du -d 0
```

通过 d 控制磁盘报告的深度

5. 使用大模型搜索

豆包

新建标签页

豆包app下载官网 - 搜狗搜索

解释 Bash 命令 - 豆包

豆包 - 字节跳动旗下 AI 智能助手

https://www.doubao.com/chat/1867224635279362

+ 新对话

AI 搜索

帮我写作

图像生成

AI 阅读

AI 编程

语音通话

AI 智能体

AI 云盘

收藏夹

历史对话

解释 Bash 命令

你有一次抽奖机会，快来看看

邀请好友

下载电脑版

plaintext ^

4 file1.txt

8 file2.txt

12 subdir

2. | (管道符号)

管道符号 | 用于将前一个命令的标准输出作为后一个命令的标准输入。在这个命令中，du -s * 的输出会被传递给 sort -nr 命令进行进一步处理。

3. sort -nr

sort 命令：sort 命令用于对文本行进行排序。

-n 选项：-n 表示 "numeric-sort"，即按照数值大小进行排序，而不是按照默认的字典序排序。因为 du 输出的第一列是磁盘使用量的数值，使用 -n 可以让排。这些数值。

-r 选项：-r 代表 "reverse"，它会反转排序顺序，使排序结果按降序排列（从大到小）。

发消息、输入 @ 选择技能或 / 选择文件

深度思考

6. 在 GitCode 平台新建一个你个人的私密的代码仓库

项目文件预览 - 课程资料 - Git x 项目首页 - mywork我自己的! x +

gitcode.com/yellow423/mywork

yellow423/mywork

代码 Issues Pull Requests 讨论 项目成员 1 分析 项目设置

免费领取云主机 Watch 0 Star 0

或为你的项目添加以下文件:

添加 README.md 添加 LICENSE 添加 .gitignore

命令行指引

你还可以按照以下说明从你的电脑中上传现有文件或项目。

Git 全局设置

```
git config --global user.name "yellow423"
git config --global user.email "yellow423@noreply.gitcode.com"
```

创建一个新仓库

```
git clone https://gitcode.com/yellow423/mywork.git
cd mywork
echo "# mywork" >> README.md
git add README.md
git commit -m "add README"
git branch -m main
```

```
MINGW64/c/Users/DELL/rep...
DELL@DESKTOP-ISUNFNG MINGW64 ~
$ mkdir repo
DELL@DESKTOP-ISUNFNG MINGW64 ~
$ cd repo
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo
$ pwd
/c/Users/DELL/repo
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo
$ git clone https://gitcode.com/yellow423/mywork.git
Cloning into 'mywork'...
remote: <CH.00905401> HTTP Basic: Access denied.
remote: The password-based authentication of Git has been removed. Please use your personal access token instead of the password. Request-id is taVwCT3feE.
fatal: Authentication failed for 'https://gitcode.com/yellow423/mywork.git/'
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo
$ git clone git@gitcode.com:yellow423/mywork.git
Cloning into 'mywork'...
warning: You appear to have cloned an empty repository.
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo
$ ls -l
total 0
drwxr-xr-x 1 DELL 197121 0 3月 13 17:51 mywork/
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo
$ cd mywork/
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ ls -l
total 0
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ git log
fatal: your current branch 'main' does not have any commits yet
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$
```

```
tkconch-script.py
nothing added to commit but untracked files present (use "git add" to track)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ git add .
warning: in the working copy of '.gitconfig', LF will be replaced by CRLF the next time Git touches it
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ git status
On branch main
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   .gitconfig
    new file:   tkconch-script.py
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ git commit
Aborting commit due to empty commit message.
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ git commit -m "added some files for test"
[main (root-commit) cb91d92] added some files for test
 2 files changed, 18 insertions(+)
 create mode 100644 .gitconfig
 create mode 100644 tkconch-script.py
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
$ git log
commit cb91d92c7666137ffbd1890445ab701a3018d713 (HEAD -> main)
Author: yellow423 <yellow423@noreply.gitcode.com>
Date: Thu Mar 13 18:02:22 2025 +0800

    added some files for test
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/mywork (main)
```