

# Bài thực hành số 1

Câu 1: thay đổi password

```
[root@localhost sinhvien]# passwd sinhvien
Changing password for user sinhvien.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost sinhvien]#
```

Câu 2 : xem ngày giờ

```
[root@localhost sinhvien]# date
Mon Feb 21 08:36:23 +07 2022
[root@localhost sinhvien]#
```

```
[root@localhost sinhvien]# date "+Hom nay la ngay: %D"
Hom nay la ngay: 02/21/22
[root@localhost sinhvien]#
```

Câu 3: clear màn hình

```
[sinhvien@localhost ~]$ $clear
```



Câu 4: xem thời gian sử dụng

```
[root@localhost sinhvien]# uptime
08:42:04 up 41 min, 2 users, load average: 0.89, 0.40, 0.24
[root@localhost sinhvien]#
```

Câu 5: xem trợ giúp

DATE(1)	User Commands	DATE(1)
---------	---------------	---------

NAME

date - print or set the system date and time

SYNOPSIS

date [OPTION]... [+FORMAT]  
date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION

Display the current time in the given FORMAT, or set the system date.

Mandatory arguments to long options are mandatory for short options too.

-d, --date=STRING  
display time described by STRING, not 'now'

--debug  
annotate the parsed date, and warn about questionable usage to stderr

-f, --file=DATEFILE  
like --date; once for each line of DATEFILE

-I[FMT], --iso-8601[=FMT]  
output date/time in ISO 8601 format. FMT='date' for date only (the default), 'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated precision. Example:  
2006-08-14T02:34:56-06:00

-R, --rfc-email  
output date and time in RFC 5322 format. Example: Mon, 14 Aug 2006 02:34:56 -0600

--rfc-3339=FMT  
output date/time in RFC 3339 format. FMT='date', 'seconds', or

Manual page date(1) line 1 (press h for help or q to quit)

Câu 6: kiểm tra thông tin người dùng

```
[root@localhost sinhvien]# who
sinhvien tty2      2022-02-21 08:03 (tty2)
sinhvien pts/1    2022-02-21 08:19 (10.227.131.222)
[root@localhost sinhvien]# whoami
root
[root@localhost sinhvien]# who am i
sinhvien pts/1    2022-02-21 08:19 (10.227.131.222)
[root@localhost sinhvien]#
```

Câu 7: kiểm tra hệ thống đang dùng

```
[root@localhost sinhvien]# uname
Linux
```

```
UNAME(1)                                User Commands                                UNAME(1)

NAME
    uname - print system information

SYNOPSIS
    uname [OPTION]...

DESCRIPTION
    Print certain system information.  With no OPTION, same as -s.

    -a, --all
        print all information, in the following order, except omit -p
        and -i if unknown:

    -s, --kernel-name
        print the kernel name

    -n, --nodename
        print the network node hostname

    -r, --kernel-release
        print the kernel release

    -v, --kernel-version
        print the kernel version

    -m, --machine
        print the machine hardware name

    -p, --processor
        print the processor type (non-portable)

    -i, --hardware-platform
        print the hardware platform (non-portable)

    -o, --operating-system

Manual page uname(1) line 1/64 54% (press h for help or q to quit)
```

Câu 8:xem l?ch

```
[root@localhost sinhvien]# cal 2002
2002

    January                      February                      March
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
    1  2  3  4  5              1  2              1  2
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    3  4  5  6  7  8  9
13 14 15 16 17 18 19    10 11 12 13 14 15 16    10 11 12 13 14 15 16
20 21 22 23 24 25 26    17 18 19 20 21 22 23    17 18 19 20 21 22 23
27 28 29 30 31          24 25 26 27 28          24 25 26 27 28 29 30
                                   31

    April                        May                          June
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6              1  2  3  4              1
  7  8  9 10 11 12 13    5  6  7  8  9 10 11    2  3  4  5  6  7  8
14 15 16 17 18 19 20    12 13 14 15 16 17 18    9 10 11 12 13 14 15
21 22 23 24 25 26 27    19 20 21 22 23 24 25    16 17 18 19 20 21 22
28 29 30                26 27 28 29 30 31        23 24 25 26 27 28 29
                                   30

    July                        August                      September
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6              1  2  3              1  2  3  4  5  6  7
  7  8  9 10 11 12 13    4  5  6  7  8  9 10    8  9 10 11 12 13 14
14 15 16 17 18 19 20    11 12 13 14 15 16 17    15 16 17 18 19 20 21
21 22 23 24 25 26 27    18 19 20 21 22 23 24    22 23 24 25 26 27 28
28 29 30 31            25 26 27 28 29 30 31    29 30

    October                     November                    December
Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa   Su Mo Tu We Th Fr Sa
    1  2  3  4  5              1  2              1  2  3  4  5  6  7
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    8  9 10 11 12 13 14
13 14 15 16 17 18 19    10 11 12 13 14 15 16    15 16 17 18 19 20 21
20 21 22 23 24 25 26    17 18 19 20 21 22 23    22 23 24 25 26 27 28
27 28 29 30 31          24 25 26 27 28 29 30    29 30 31
```

Câu 9. Truy?n thông ?i?p (chat)

```
[root@localhost sinhvien]# write sinhvien
write: sinhvien is logged in more than once; writing to pts/1
hi! chuc mot ngay vui ve !
[root@localhost sinhvien]# exit
```

Câu 10. T? ch?i/cho phép nh?p thông ?i?p trên màn hình b?i l?nh write

```
[sinhvien@localhost ~]$ mesg n
[sinhvien@localhost ~]$ mesg y
```

Câu 11. G?i/nh?n th? ?i?n t? gi?a các ng??i dùng

G?i:

```
[sinhvien@localhost ~]$ mail sinhvien
Subject: chao ban minh la tai
EOT
```

?

Sau khi g?i th? v? cho user thì user nh?n s? có thông báo nh? sau

```
You have new mail in /var/spool/mail/sinhvien
```

Nh?n:

?? ki?m tra th? nh?n ta th?c hi?n nh? sau

```
Heirloom Mail version 12.5 7/5/10. Type ? for help.
"/var/spool/mail/sinhvien": 2 messages 2 new
>N 1 Mail Delivery System Sun Mar 27 23:25 85/3264 "Undelivered Mail Retur"
  N 2 sinhvien Sun Mar 27 23:30 18/659 "chao ban minh la tai"
& 2
Message 2:
```

&2 ki?m tra th? th? 2 :

```
& 2
Message 2:
From sinhvien@localhost.localdomain Sun Mar 27 23:30:33 2022
Return-Path: <sinhvien@localhost.localdomain>
X-Original-To: sinhvien
Delivered-To: sinhvien@localhost.localdomain
Date: Sun, 27 Mar 2022 23:30:33 +0700
To: sinhvien@localhost.localdomain
Subject: chao ban minh la tai
User-Agent: Heirloom mailx 12.5 7/5/10
Content-Type: text/plain; charset=us-ascii
From: sinhvien@localhost.localdomain (sinhvien)
Status: R
```

Ta dùng l?nh &q ?? so?n tin m?i và &d ?? thoát trình ??c mail

```
& q
Held 1 message in /var/spool/mail/sinhvien
```

Câu 12. M?t s? l?nh khác

Xem s? hi?u termail ?ang s? d?ng

```
[sinhvien@localhost ~]$ tty
/dev/pts/2
```

Hi?n th? các thông báo trên màn hình:

```
/dev/pts/2
[sinhvien@localhost ~]$ echo "xin chao"
xin chao
[sinhvien@localhost ~]$ echo "Hom nay la ngay : ";date
Hom nay la ngay :
Mon Mar 28 00:06:32 ICT 2022
```

Xem phiên b?n Linux ?ang s? d?ng

```
[sinhvien@localhost ~]$ uname -a
Linux localhost.localdomain 3.10.0-327.36.3.el7.x86_64 #1 SMP Mon Oct 24 16:09:20
UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
[sinhvien@localhost ~]$ uname -r
3.10.0-327.36.3.el7.x86_64
```

K?t thúc phiên làm vi?c

```
[sinhvien@localhost ~]$ ^logout

Session stopped
- Press <return> to exit tab
- Press R to restart session
- Press S to save terminal output to file
```

```
[sinhvien@localhost ~]$ exit  
logout
```

Session stopped

- Press <return> to exit tab
- Press R to restart session
- Press S to save terminal output to file

Shutdown máy:

```
[root@LinuxServer ~]# halt
```

```
[root@LinuxServer ~]# init 0
```

```
[root@LinuxServer ~]# shutdown
```

```
[sinhvien@localhost ktm]$ init 0  
==== AUTHENTICATING FOR org.freedesktop.login1.power-off ===  
Authentication is required for powering off the system.  
Authenticating as: root  
Password:  
==== AUTHENTICATION COMPLETE ===  
[sinhvien@localhost ktm]$  
Remote side unexpectedly closed network connection
```

Session stopped

- Press <return> to exit tab
- Press R to restart session
- Press S to save terminal output to file

## BÀI THỰC HÀNH SỐ 2:

Bài 1:

Xem đường dẫn và xem nội dung thư mục sau có thêm file Baitho.txt

```
[sinhvien@localhost ~]$ pwd
/home/sinhvien
[sinhvien@localhost ~]$ ls -la
total 36
drwx-----. 15 sinhvien sinhvien 4096 Feb 24 08:07 .
drwxr-xr-x. 3 root root 22 Feb 10 07:56 ..
-rw-----. 1 sinhvien sinhvien 201 Feb 24 08:04 .bash_history
-rw-r--r--. 1 sinhvien sinhvien 18 Jul 21 2020 .bash_logout
-rw-r--r--. 1 sinhvien sinhvien 141 Jul 21 2020 .bash_profile
-rw-r--r--. 1 sinhvien sinhvien 376 Jul 21 2020 .bashrc
drwx-----. 18 sinhvien sinhvien 4096 Feb 10 08:25 .cache
drwx-----. 14 sinhvien sinhvien 262 Feb 10 08:25 .config
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Desktop
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Documents
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Downloads
-rw-----. 1 sinhvien sinhvien 16 Feb 10 07:58 .esd_auth
-rw-----. 1 sinhvien sinhvien 3100 Feb 24 08:06 .ICEauthority
drwx-----. 3 sinhvien sinhvien 19 Feb 10 07:58 .local
drwxr-xr-x. 6 sinhvien sinhvien 81 Feb 10 08:01 .mozilla
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Music
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Pictures
drwxrw----. 3 sinhvien sinhvien 19 Feb 10 07:58 .pki
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Public
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Templates
drwxr-xr-x. 2 sinhvien sinhvien 6 Feb 10 07:58 Videos
-rw-----. 1 sinhvien sinhvien 67 Feb 24 08:07 .Xauthority
[sinhvien@localhost ~]$ cat > baitho
```

Ki?m tra n?i dung bài th?

```
[sinhvien@localhost ~]$ cat baitho.txt
Hom nay troi nang dep!
[sinhvien@localhost ~]$
```

Sau ?ó T?o hai th? m?c cnpm, ktm trong th? m?c cntt sau ?ó xoá th? m?c cnpm

```
[sinhvien@localhost ~]$ rm -ri cntt/cnpm
rm: remove directory 'cntt/cnpm'? y
[sinhvien@localhost ~]$
```

Câu 2: t?o th? m?c

```
[sinhvien@localhost ~]$ mkdir Finance
[sinhvien@localhost ~]$ mkdir Finance/Expense Finance/Income
[sinhvien@localhost ~]$ mkdir Finance/Expense/Electricity Finance/Expense/Postage
[sinhvien@localhost ~]$ Maketing
bash: Maketing: command not found...
[sinhvien@localhost ~]$ mkdir Maketing
[sinhvien@localhost ~]$ mkdir Maketing/Sales
[sinhvien@localhost ~]$ mkdir Maketing/Sales/Salesinfo
[sinhvien@localhost ~]$ mkdir Maketing/Purchase
[sinhvien@localhost ~]$ mkdir Maketing/Purchase/Purinfo
[sinhvien@localhost ~]$ mkdir Personnel
[sinhvien@localhost ~]$ mkdir Personnel/Pay
[sinhvien@localhost ~]$ mkdir Personnel/Pay/Deduction Personnel/Pay/Allowance
[sinhvien@localhost ~]$ mkdir Personnel/Admin/Records
mkdir: cannot create directory 'Personnel/Admin/Records': No such file or directory
[sinhvien@localhost ~]$ mkdir Personnel/Admin
[sinhvien@localhost ~]$ mkdir Personnel/Admin/Records
[sinhvien@localhost ~]$
```



```
[sinhvien@localhost ~]$ pwd
/home/sinhvien
[sinhvien@localhost ~]$ ls ~/Finance/Expense
Electricity Postage
[sinhvien@localhost ~]$ cd /etc
[sinhvien@localhost etc]$ ls -l *.conf
```

```
-rw-r--r-- 1 root root 55 Mar 6 2015 asound.conf
-rw-r--r-- 1 root root 12706 Nov 20 2015 autofs.conf
-rw-r--r-- 1 root root 232 Nov 20 2015 autofs_ldap_auth.conf
-rw-r--r-- 1 root root 21929 Mar 6 2015 brltty.conf
-rw-r--r-- 1 root root 676 Mar 6 2015 cgconfig.conf
-rw-r--r-- 1 root root 265 Mar 17 07:32 cgrules.conf
-rw-r--r-- 1 root root 131 Mar 6 2015 cgsnapshot_blacklist.conf
-rw-r--r-- 1 root root 1165 Nov 24 2015 chrony.conf
-rw-r--r-- 1 root root 1131 Nov 21 2015 dleyna-server-service.conf
-rw-r--r-- 1 root root 25213 Sep 15 2016 dnsmasq.conf
-rw-r--r-- 1 root root 1285 Jun 24 2016 dracut.conf
-rw-r--r-- 1 root root 112 Mar 6 2015 e2fsck.conf
-rw-r--r-- 1 root root 20 Jun 24 2014 fprintd.conf
-rw-r--r-- 1 root root 38 Jul 22 2014 fuse.conf
-rw-r--r-- 1 root root 871 Mar 17 07:26 hba.conf
-rw-r--r-- 1 root root 9 Jun 7 2013 host.conf
-rw-r--r-- 1 root root 3580 Nov 20 2015 idmapd.conf
-rw-r--r-- 1 root root 2380 Nov 4 2015 ipsec.conf
-rw-r--r-- 1 root root 7156 Mar 17 07:26 kdump.conf
-rw-r--r-- 1 root root 495 Mar 31 2016 krb5.conf
-rw-r--r-- 1 root root 478 Aug 12 2016 ksmtuned.conf
-rw-r--r-- 1 root root 28 Feb 28 2013 ld.so.conf
-rw-r--r-- 1 root root 191 Oct 28 2014 libaudit.conf
-rw-r--r-- 1 root root 2388 Mar 17 07:40 libuser.conf
-rw-r--r-- 1 root root 19 Mar 17 07:40 locale.conf
-rw-r--r-- 1 root root 662 Jul 31 2013 logrotate.conf
-rw-r--r-- 1 root root 5171 Jun 10 2014 man_db.conf
-rw-r--r-- 1 root root 936 Mar 6 2015 mke2fs.conf
-rw-r--r-- 1 root root 2620 Jun 10 2014 mtools.conf
-rw-r--r-- 1 root root 3390 Jun 24 2016 nfsmount.conf
-rw-r--r-- 1 root root 1721 Mar 17 07:40 nsswitch.conf
-rw-r--r-- 1 root root 2000 May 31 2016 ntp.conf
-rw-r--r-- 1 root root 91 Dec 3 2012 numad.conf
-rw-r--r-- 1 root root 4922 Mar 6 2015 oddjobd.conf
-rw-r--r-- 1 root root 1362 Jun 10 2014 pbm2ppa.conf
-rw-r--r-- 1 root root 6300 Jun 10 2014 pnm2ppa.conf
-rw-r--r-- 1 root root 433 Sep 9 2015 radvd.conf
-rw-r--r-- 1 root root 1787 Jun 10 2014 request-key.conf
-rw-r--r-- 1 root root 265 Mar 28 08:19 resolv.conf
-rw-r--r-- 1 root root 458 Nov 21 2015 rsyncd.conf
-rw-r--r-- 1 root root 3232 Sep 8 2015 rsyslog.conf
-rw-r--r-- 1 root root 216 Nov 20 2015 sestatus.conf
-rw-r--r-- 1 root root 256 Feb 17 2016 sos.conf
-rw-r--r-- 1 root root 1786 Mar 31 2016 sudo.conf
-rw-r--r-- 1 root root 3181 Mar 31 2016 sudo-ldap.conf
-rw-r--r-- 1 root root 225 Aug 2 2016 sysctl.conf
-rw-r--r-- 1 tss tss 7046 Nov 21 2015 tcsh.conf
-rw-r--r-- 1 root root 508 Jan 26 2014 updatedb.conf
-rw-r--r-- 1 root root 889 Aug 8 2013 usb_modeswitch.conf
-rw-r--r-- 1 root root 37 Mar 17 07:40 vconsole.conf
-rw-r--r-- 1 root root 0 Jun 10 2014 wvdial.conf
-rw-r--r-- 1 root root 970 Dec 3 2015 yum.conf
```

Xem n?i dung c?a file /var/log/dmesg m?t trang t?i m?t th?i ?i?m.



```
[sinhvien@localhost ~]$ cat /var/log/dmesg | more
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Initializing cgroup subsys cpuacct
[ 0.000000] Linux version 3.10.0-327.36.3.el7.x86_64 (builder@kbuilder.dev.centos.org) (gcc
version 4.8.5 20150623 (Red Hat 4.8.5-4) (GCC) ) #1 SMP Mon Oct 24 16:09:20 UTC 2016
[ 0.000000] Command line: BOOT_IMAGE=/vmlinuz-3.10.0-327.36.3.el7.x86_64 root=UUID=5d44a70
0-3591-4e2b-b91d-445d9cc392b0 ro crashkernel=auto rhgb quiet LANG=en_US.UTF-8
[ 0.000000] Disabled fast string operations
[ 0.000000] e820: BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009ebff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000009ec00-0x000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000000dc000-0x00000000000fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000100000-0x0000000000bfecffff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000bfed0000-0x000000000bfefefff] ACPI data
[ 0.000000] BIOS-e820: [mem 0x000000000bfeff000-0x000000000bfefffff] ACPI NVS
[ 0.000000] BIOS-e820: [mem 0x000000000bff00000-0x000000000bfffffff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000f0000000-0x000000000f7fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000fec00000-0x000000000fec0ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000fee00000-0x000000000fee0ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000fffe0000-0x000000000ffffffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000100000000-0x0000000013fffff] usable
[ 0.000000] NX (Execute Disable) protection: active
[ 0.000000] SMBIOS 2.7 present.
[ 0.000000] DMI: VMware, Inc. VMware Virtual Platform/440BX Desktop Reference Platform, BI
OS 6.00 07/22/2020
[ 0.000000] Hypervisor detected: VMware
[ 0.000000] e820: update [mem 0x00000000-0x00000fff] usable ==> reserved
[ 0.000000] e820: remove [mem 0x000a0000-0x000fffff] usable
[ 0.000000] AGP: No AGP bridge found
[ 0.000000] e820: last_pfn = 0x140000 max_arch_pfn = 0x400000000
[ 0.000000] MTRR default type: uncachable
[ 0.000000] MTRR fixed ranges enabled:
[ 0.000000] 00000-9FFFF write-back
[ 0.000000] A0000-BFFFF uncachable
[ 0.000000] C0000-CBFFF write-protect
[ 0.000000] CC000-EFFFF uncachable
[ 0.000000] F0000-FFFFFF write-protect
[ 0.000000] MTRR variable ranges enabled:
[ 0.000000] 0 base 000000000000 mask 1FE00000000 write-back
[ 0.000000] 1 base 0000C0000000 mask 1FFFC000000 uncachable
--More--
```

Copy tất cả các file và thư mục trong thư mục ~/Finance. Sau đó xác minh xem các file đã được copy chưa.

```
[sinhvien@localhost ~]$ cat > test.sh
abc[sinhvien@localhost ~]$
[sinhvien@localhost ~]$ cp *.sh ~/Finance
```

Kiểm tra:

```
bash: cd: ~/Finance: No such file or directory
[sinhvien@localhost ~]$ cd ~/Finance
[sinhvien@localhost Finance]$ ls
Expense Income test.sh
```

Di chuyển tất cả các file và thư mục trong thư mục ~/Marketing/Sales. Sau đó xác minh xem các file đã được copy chưa.

```
[sinhvien@localhost ~]$ cd ~/Marketing/Sales
[sinhvien@localhost Sales]$ mkdir Trends
[sinhvien@localhost Sales]$ ls
Salesinfo Trends
[sinhvien@localhost Sales]$ cd
[sinhvien@localhost ~]$ mv *.dat ~/Marketing/Sales/Trends
```

Xóa tất cả các file trong thư mục ~/Marketing/Sales/Trends

```
[sinhvien@localhost ~]$ cd ~/Marketing/Sales
[sinhvien@localhost Sales]$ cd Trends
[sinhvien@localhost Trends]$ rmdir *.*
rmdir: failed to remove 'file.dat': Not a directory
[sinhvien@localhost Trends]$ su
Password:
[root@localhost Trends]# rm -ri *.*
rm: remove regular file 'file.dat'? y
```

### Câu 3. Quy?n truy xu?t t?p tin th? m?c

```
[root@localhost ~]# cd /etc
[root@localhost etc]# cat > hello
echo "Hello."
echo "How are you?"
[root@localhost etc]# cat > Reply
rm -ri hello
[root@localhost etc]# rm -ri hello
rm: remove regular file 'hello'? y
[root@localhost etc]# rm -ri Reply
rm: remove regular file 'Reply'? y
[root@localhost etc]# cat > Hello
echo "hello."
echo "How are you?"
[root@localhost etc]# cat > Reply
echo "Hi." Echo ,,I'm fine,Thanks.And You?
```

```
[root@localhost etc]# ls -l hello Reply
ls: cannot access hello: No such file or directory
-rw-r--r--. 1 root root 43 Mar 28 09:52 Reply
```

Xem quy?n c?a các file trên:

Ch?y hai ch??ng trình trên:

B1: ??t quy?n th?c thi cho các file trên

B2: Ch?y 2 ch??ng trình trên

B? quy?n th?c thi ??i v?i các file trên c?a các ng??i dùng cùng nhóm (group - g) và nh?ng ng??i dùng khác (other - o)

```
[root@localhost etc]# chmod a+x Hello Reply
[root@localhost etc]# ./Hello
hello.
How are you?
[root@localhost etc]# ./Reply
./Reply: line 1: unexpected EOF while looking for matching `"'
./Reply: line 2: syntax error: unexpected end of file
[root@localhost etc]# chmod go-x Hello Reply
```

Hãy th? dùng l?nh chmod v?i các cách khác (g-rwx, o-rwx, 700,...)?

```
[root@localhost etc]# chmod g-rwx Hello
[root@localhost etc]# chmod o-rwx Hello
[root@localhost etc]# chmod 700
chmod: missing operand after '700'
Try 'chmod --help' for more information.
[root@localhost etc]# chmod 700 Hello
```

C?p quy?n cho ch? s? h?u( ??c vi?t ch?y) và ng??i cùng nhóm ( ??c ch?y)

```
[root@localhost etc]# chmod 750 Hello Reply
[root@localhost etc]# ls -l Hello Reply
-rwxr-x---. 1 root root 34 Mar 28 09:51 Hello
-rwxr-x---. 1 root root 43 Mar 28 09:52 Reply
[root@localhost etc]#
```

??i ch? s? h?u file

```
[root@localhost etc]# chown sinhvien Hello Reply
[root@localhost etc]# chown sinhvien1 Hello Reply
```

#### Câu 4. Liên kết tệp tin, thư mục

Tạo hai file bai1.sh và bai2.sh trong thư mục cntt. Sao chép các file về thành thư mục .old:

Ví dụ:

```
[sinhvien@LinuxServer ~]$ cp bai1.sh bai1.old
```

Tạo các thư mục source và userbin

```
[sinhvien@LinuxServer ~]$ mkdir source userbin
```

Di chuyển các file bai1.sh và bai2.sh vào thư mục source, các file bai1.old và bai2.old vào thư mục userbin

```
[sinhvien@localhost cntt]$ cat > bai1.sh
abc
[sinhvien@localhost cntt]$ cat > bai2.sh
cbd
[sinhvien@localhost cntt]$ cp bai1.sh bai1.old
[sinhvien@localhost cntt]$ mkdir source userbin
[sinhvien@localhost cntt]$ cp bai1.sh ~/source
[sinhvien@localhost cntt]$ cp bai2.sh ~/source
[sinhvien@localhost cntt]$ cp bai2.sh bai2.old
[sinhvien@localhost cntt]$ mv bai1.old bai2.old ~/userbin
mv: target '/home/sinhvien/userbin' is not a directory
[sinhvien@localhost cntt]$ ls
bai1.old bai1.sh bai2.old bai2.sh ktm source userbin
[sinhvien@localhost cntt]$ mv bai1.old ~/userbin
[sinhvien@localhost cntt]$ mv bai2.old ~/userbin
[sinhvien@localhost cntt]$ ls
bai1.sh bai2.sh ktm source userbin
[sinhvien@localhost cntt]$ rm -ri bai1.sh bai2.sh
rm: remove regular file 'bai1.sh'? y
rm: remove regular file 'bai2.sh'? y
[sinhvien@localhost cntt]$ ls
ktm source userbin
[sinhvien@localhost cntt]$ userbin
```

Tạo liên kết là bai1k trong thư mục hiên hành tệp như bai1.sh trong thư mục source.

```
[sinhvien@localhost source]$ ln source/bai1.sh bai1k
ln: failed to access 'source/bai1.sh': No such file or directory
```

=> không thể tạo liên

kết

```
[sinhvien@localhost source]$ ls -li
total 8
103611329 -rw-rw-r--. 1 sinhvien sinhvien 4 Mar 28 11:47 bai1.sh
103611339 -rw-rw-r--. 1 sinhvien sinhvien 6 Mar 28 11:47 bai2.sh
[sinhvien@localhost source]$ ls
```

Các thông tin liệt kê gồm id – quyền – user – group – thời gian – tên file

Tìm bai2.sh

```
[sinhvien@localhost ~]$ find ~ -name bai2.sh
/home/sinhvien/cntt/source/bai2.sh
```

Tìm giá trị inode của bai2.sh

```
sinhvien@localhost ~]$ ls -i /home/sinhvien/cntt/source/bai2.sh
103611339 /home/sinhvien/cntt/source/bai2.sh
```

## BÀI THỰC HÀNH SỐ 3

**Câu 1 :** 1. Chuyển sang chế độ lệnh (command mode) và hiển thị số dòng trong file

```
1  
~
```

2. Xóa dòng 13.

```
1 ban tre  
2 chao ban  
3 alo alo  
4 chao mn  
5 hello  
6 chao nha  
7 xin chiu  
8 alo alo  
9 test  
10 help  
11 nice  
12 bai  
13 siu  
14 nhan  
15
```

3. Copy dòng 3 và dán (paste) nó vào cuối tài liệu.

```
1 ban tre  
2 chao ban  
3 alo alo  
4 chao mn  
5 hello  
6 chao nha  
7 xin chiu  
8 alo alo  
9 test  
10 help  
11 nice  
12 bai  
13 siu  
14 nhan  
15  
16 alo alo
```

4. Undo thao tác dán (paste). Quan sát dòng bị xóa khi thực hiện lệnh undo.

```
1 ban tre
2 chao ban
3 alo alo
4 chao mn
5 hello
6 chao nha
7 xin chiu
8 alo alo
9 test
10 help
11 nice
12 bai
13 siu
14 nhan
15 █
```

5. Tìm kiếm và thay thế:

```
:1, $s/[old]/[new]/ ho?c:s/text1/text2/g
```

```
1 ban tre
2 chao ban
3 alo alo
4 chao mn
5 hello
6 chao nha
7 xin chiu
8 alo alo
9 test
10 help
11 nice
12 bai
13 siu
14 nhan
15
```

:1

1,1

AUT

```
E486: Pattern not found: [old]
```

## 6. Lưu file và thoát khỏi vi

1 ban tre  
2 cha<sup>o</sup> ban  
3 a<sup>lo</sup> a<sup>lo</sup>  
4 cha<sup>o</sup> mn  
5 hel<sup>lo</sup>  
6 cha<sup>o</sup> nha  
7 xin chiu  
8 a<sup>lo</sup> a<sup>lo</sup>  
9 test  
10 hel<sup>p</sup>  
11 nice  
12 bai  
13 siu  
14 nhan  
15

**Câu 2Gi: s? trong th? m?c c?a Binh có file Message.txt ch?a các thông tin liên quan ??n**

**Bình. Th?c hi?n các b??c sau:**

2. ?m s? dòng, s? t?, và s? ký t? trong file messages có ch?a ch? Binh trong ?ó.