

```
mohammed@mohammed: /tmp
PrintPath
alert
egrep
fgrep
grep
l
la
ll
ls
if
then
else
elif
fi
case
esac
for
select
while
until
do
done
in
:
```

1-

2-

```
if [ -z "${debian_chroot:-}" ] && [ -r /etc/debian_chroot ]; then
    debian_chroot=$(cat /etc/debian_chroot)
fi

# set a fancy prompt (non-color, unless we know we "want" color)
case "$TERM" in
    xterm-color|*-256color) color_prompt=yes;;
esac

# uncomment for a colored prompt, if the terminal has the capability; turned
# off by default to not distract the user: the focus in a terminal window
# should be on the output of commands, not on the prompt
#force_color_prompt=yes

if [ -n "$force_color_prompt" ]; then
    if [ -x /usr/bin/tput ] && tput setaf 1 >/dev/null; then
        # We have color support; assume it's compliant with Ecma-48
        # (ISO/IEC-6429). (Lack of such support is extremely rare, and such
        # a case would tend to support setf rather than setaf.)
        color_prompt=yes
    else
        color_prompt=
    fi
fi

if [ "$color_prompt" = yes ]; then
    PS1='${debian_chroot:+($debian_chroot)}\[\033[01;32m\]\u@\h\[\033[00m\]:\[\033[01;34m\]\w\[\033[00m\]\$ '
else
    PS1='${debian_chroot:+($debian_chroot)}\u@\h:\w\$ '
fi
unset color_prompt force_color_prompt

# If this is an xterm set the title to user@host:dir
case "$TERM" in
    xterm*|rxvt*)
        PS1="\[\e]0;${debian_chroot:+($debian_chroot)}\u@\h: \w\a\]$PS1"
        ;;
    *)
        ;;
esac

# enable color support of ls and also add handy aliases
if [ -x /usr/bin/dircolors ]; then
    test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval "$(dircolors -b)"
    alias ls='ls --color=auto'
    #alias dir='dir --color=auto'
    #alias vdir='vdir --color=auto'

    alias grep='grep --color=auto'
    alias fgrep='fgrep --color=auto'
    alias egrep='egrep --color=auto'
fi

# colored GCC warnings and errors
search hit BOTTOM, continuing at TOP
```

```
mohammed@mohammed: ~  
mohammed@mohammed: ~ 80x24  
mohammed@mohammed ~ 01:23:46 $
```

```
(45) a BASH script PUSH: x [Resolved] 'Unary Opera: x Admin Linux_3 - Google l: x all user command in linux: x ChatGPT x +  
mohammed@mohammed: ~  
mohammed@mohammed: ~ 80x24  
mohammed@mohammed ~ 01:23:46 $ gedit .bashrc  
mohammed@mohammed ~ 01:25:05 $  
mohammed@mohammed: ~  
mohammed@mohammed: ~ 80x24  
mohammed@mohammed: ~$
```

3-

```
mohammed@mohammed:~$ compgen -c  
compgen: command not found  
mohammed@mohammed:~$ comp  
compare          compgen          compopt          composite-im6  
compare-im6      compile_et      compose          composite-im6.q16  
compare-im6.q16  complete      composite  
mohammed@mohammed:~$ compgen  
Display all 2949 possibilities? (y or n)  
mohammed@mohammed:~$ compgen -c | wc -c  
59897  
mohammed@mohammed:~$
```

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a-

```
mohammed@mohammed:~$ cat first_bash_script.sh | cat eldenring.sh
#!/bin/bash

echo "Welcome tarnished !!! Please select your class:
1- Samurai
2- Prisoner
3- Prophet"

read class

case $class in
    1)
        type="Samurai"
        hp=10
        attack=20
        ;;
    2)
        type="Prisoner"
        hp=20
        attack=4
        ;;
    3)
        type="Prophet"
        hp=30
        attack=4
        ;;
esac
echo "You died"

#first beast battle

beast=$((RANDOM%2))

echo "Your first beast approaches. Prepare to battle. Pick a number between 0-1. (0/1)"

read tarnished

if [ $tarnished == $beast ]; then
    echo "Beast VANQUISHED!! Congrats fellow tarnished"
else
    echo "You Died"
    exit
fi

echo "Boss battle. Get scared. It's Margit. Pick a number between 0-9 (0-9)"

read tarnished

beast=$((RANDOM%10))

if [[ $tarnished == $beast || $tarnished == "coffee" ]]; then
    echo "Beast Vanquished"
elif [ $USER == "ahemd" ]; then
    echo "Hey, ahmed always wins. You vanquished the beast"
else
```

b-

```
mohammed@mohammed:~$ ls | rm
rm: missing operand
Try 'rm --help' for more information.
mohammed@mohammed:~$
```

c-

```
mohammed@mohammed:~$ ls /etc/passwd | wc -l
1
mohammed@mohammed:~$
```

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6-

```
mohammed@mohammed:~$ locate .profile
mohammed@mohammed:~$ ls -l /etc/hosts
-rw-r--r-- 1 root root 128 Oct 10 10:10 /etc/hosts
786597 /etc/hosts
/
12 bin 1966081 cdrom 786433 etc 13 lib 15 lib64 11 lost+found 1441793 mnt 1 proc 1 run 3145729 snap 1 sys 4587521 usr
1310721 boot 1 dev 262145 home 14 lib32 16 libx32 2883585 media 393217 opt 917505 root 17/sbin 1703937 srv 4456449 tmp 4980737 var
/etc:
786440 acpi 786465 cupsdhelpers 786487 gtk-2.0 786504 libreoffice 788246 odbcn1 786638 resolv.conf 832023 texmf
786570 adduser.conf 786466 dbus-1 786488 gtk-3.0 788216 lighttpd 788450 odbcnst1 786812 rmt 786552 thermal
821797 adjtime 786467 dconf 786593 hdpam.conf 786610 locale.alias 830494 openal 786640 rpc 786553 thunderbird
786441 alsa 786582 debconf.conf 786594 host.conf 786937 locale.gen 786219 openmpi 786641 rsyslog.conf 786653 timezone
786442 alternatives 786583 debian.version 786595 hostid 789726 localtime 788247 opennt 786536 rsyslog.d 832158 tlnlity
786571 anacrontab 786468 default 786596 hostname 786505 logcheck 788251 opennt2 793762 rubocop 786554 tmpfiles.d
788213 apache2 786584 deluser.conf 786597 hosts 786613 login.defs 786514 openvpn 786642 rygel.conf 786555 ubuntu-advantage
786572 apg.conf 786469 depmod.d 786598 hosts.allow 786614 logrotate.conf 786515 opt 786537 sane.d 786654 ucf.conf
786443 apt 786470 dhcp 786599 hosts.deny 786506 logrotate.d 789743 ss-release 832087 screenrc 786556 udev
786444 apparmor 786471 dictionaries-common 786489 hp 789738 lsb-release 786437 PackageKit 786538 security 786557 udisks2
786445 apparmor.d 786472 dpkg 786490 ifplugd 786616 machine-id 786632 pam.conf 786539 selinux 786558 ufw
786446 apport 786585 e2scrub.conf 789438 ImageMagick-6 786617 magic 786516 pam.d 786643 sensors3.conf 789176 updatedb.conf
786573 appstream.conf 786473 emera 786491 init 786618 magic.mtne 788906 paperize 786540 sensors.d 786559 update-manager
786447 apt 786586 environment 786492 init.d 788269 nallcap 789553 passwd 786644 services 786560 update-notifd.d
786448 avahi 786474 environment.d 786493 initramfs-tools 786620 nallcap.order 789382 passwd- 786541 sgml 786561 update-notifier
786574 bash.bashrc 786587 ethertypes 786600 inputrc 786621 nanpatch.conf 786517 pcncta 789581 shadow 786438 UPower
786575 bash_completion 786475 Firefox 786494 inserv.conf.d 786253 natplotlbrc 786518 perl 786634 shadow- 786555 usb_modeswitch.conf
786449 bash_completion.d 786476 fonts 786495 lpp-usb 789371 nercurl 786519 pki 832117 shells 786562 usb_modeswitch.d
786576 bindresvport.blacklist 786588 fprintd.conf 786496 lprou2 786622 ntne.types 786520 pm 789430 signon-ul 786455 vdpau_wrapper.cfg
786450 binfmt.d 786434 fstab 789735 issue 786623 mke2fs.conf 786635 pnm2ppa.conf 786542 skel 786563 vln
786451 bluetooth 786589 fuse.conf 789736 issue.net 786435 HidenManager 786521 polkit-1 786543 snmp 786656 vtrgb
786577 brlapi.key 786477 fupde 787091 java-11-openjdk 786508 nodprobe.d 786522 pp 786544 speech-dispatcher 786564 vulkan
786452 brlty 786590 gai.conf 786497 kernel 786624 modules 786908 printcap 786545 ssh 788302 win 786565 wpa_supplicant
786578 brlty.conf 786645 gamla 787757 kernel-img.conf 786509 modules-load.d 786636 profile 786546 ssl 786657 wgetrc
786453 ca-certificates 786478 gdb 786604 kerneloops.conf 786625 mtab 786523 profile.d 786547 subgid 786535 whoopstie
789937 ca-certificates.conf 786479 gdb3 828614 lccorc 788173 nysel 786637 protocols 786648 subgid- 786565 wpa_supplicant
786579 ca-certificates.conf.dpkg-old 786480 goclue 786500 leap 786626 nanorc 786524 pulse 789413 subuid 786439 x11
786454 chatscripts 786481 ghostscript 789209 ld.so.cache 786627 netconfig 786525 python3 789387 subuid 786558 xattr.conf
786456 console-setup 786482 glvnd 786606 ld.so.conf 786510 netplan 786526 python3.10 789376 subversion 786566 xdg
786457 cracklib 786483 gnome 786499 ld.so.conf.d 786511 network 786527 rc0.d 786649 sudo.conf 786567 xnl
786458 cron.d 786484 groff 786607 legal 786512 networkd-dispatcher 786528 rc1.d 786651 sudoers 786659 zsh_command_not_found
786459 cron.daily 789188 group 786608 libao.conf 786436 NetworkManager 786529 rc2.d 786548 sudoers.d 786650 sudo_logsrvd.conf
786460 cron.hourly 786592 group- 786609 libaudit.conf 786628 networks 786530 rc3.d 786650 sudo_logsrvd.conf
786461 cron.monthly 786485 grub.d 786501 libblockdev 786513 newt 786531 rc4.d 786652 sysctl.conf
786581 cronstab 789181 gshadow 788181 liblverbs.d 786629 nftables.conf 786532 rc5.d 786549 sysctl.d
786462 cron.weekly 789383 gshadow- 786502 libnt-3 786463 nsswitch.conf 786533 rc6.d 786550 systemd
786464 cups 786486 gss 786503 libpaper.d 788241 ODBCDataSources 786534 rc5.d 786551 termInfo
mohammed@mohammed:~$
```

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```
/snap/core20/1974/usr/share/opensc/ias_adele_common.profile
```

```
/snap/core20/1974/usr/share/opensc/iasacc.profile
```

```
mohammed@mohammed:~$ ls -s /etc/passwd /boot/pass
ls: cannot access '/boot/pass': No such file or directory
4 /etc/passwd
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
ln: failed to create symbolic link '/boot/pass': Permission denied
mohammed@mohammed:~$ sudo ln -s /etc/passwd /boot/pass
[sudo] password for mohammed:
mohammed@mohammed:~$
```

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```
/snap/core20/1974/usr/share/opensc/jcop.profile
/snap/core20/1974/usr/share/opensc/micos.profile
```

```
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
ln: failed to create symbolic link '/boot/pass': Permission denied
mohammed@mohammed:~$ sudo ln -s /etc/passwd /boot/pass
[sudo] password for mohammed:
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
ln: failed to create hard link '/boot/pass': file exists
mohammed@mohammed:~$ rm -rf /boot/pass
rm: cannot remove '/boot/pass': Permission denied
mohammed@mohammed:~$ sudo rm /boot/pass
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
ln: failed to create hard link '/boot/pass' => '/etc/passwd': Operation not permitted
mohammed@mohammed:~$
```

```
/snap/core20/1974/usr/share/opensc/rutoken_lite.profile
```

```
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
pass: ASCII text
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
ln: failed to create hard link '/boot/pass': File exists
mohammed@mohammed:~$ sudo ln -s /etc/passwd /boot/pass
mohammed@mohammed:~$ ln -s /etc/passwd /boot/pass
mohammed@mohammed:~$
```

can

do

```
/snap/core20/2015/usr/share/base-files/dot.profile
/snap/core20/2015/usr/share/base-files/dot.profile.md5sums
/snap/core20/2015/usr/share/linlitan/profiles/dpkg/main.profile
/snap/core20/2015/usr/share/opensc/asepcos.profile
/snap/core20/2015/usr/share/opensc/authentic.profile
/snap/core20/2015/usr/share/opensc/cardos.profile
```

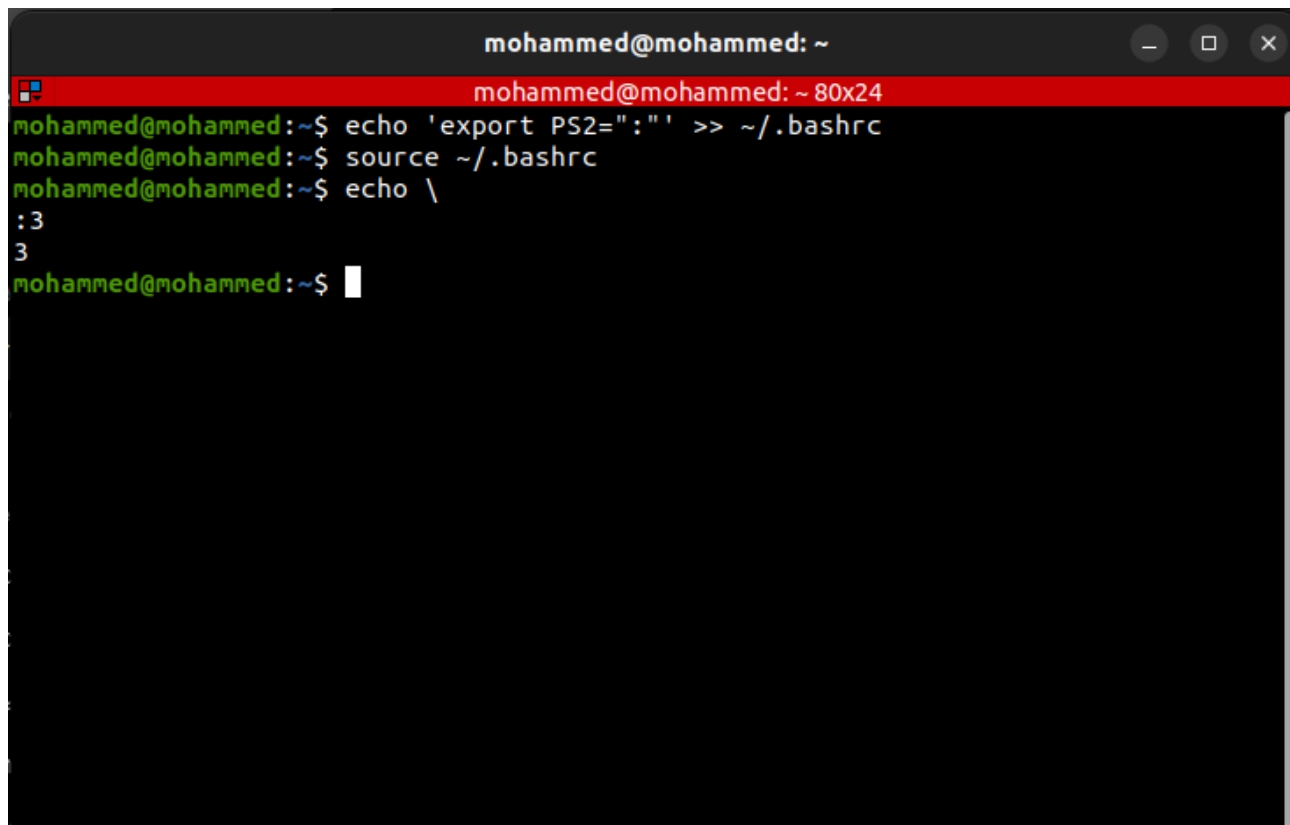
hard link without sudo

not

9- it indicate that you have not finished typing your line and waiting for you to complete

```
mohammed@mohammed:~$ echo \  
> 6  
6  
mohammed@mohammed:~$
```

using PS2 in .bashrc



A terminal window titled "mohammed@mohammed: ~" with standard window controls. The terminal shows the following commands and output:

```
mohammed@mohammed:~$ echo 'export PS2=":' >> ~/.bashrc  
mohammed@mohammed:~$ source ~/.bashrc  
mohammed@mohammed:~$ echo \  
:  
:  
:  
3  
3  
mohammed@mohammed:~$
```