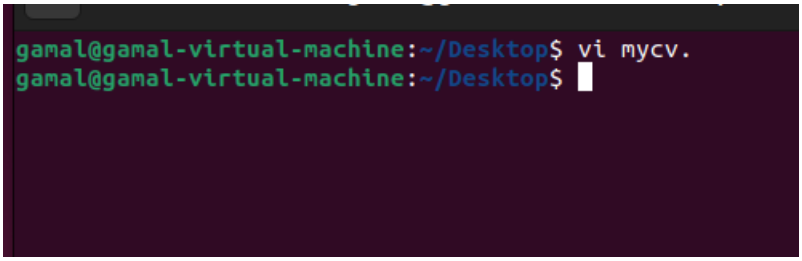
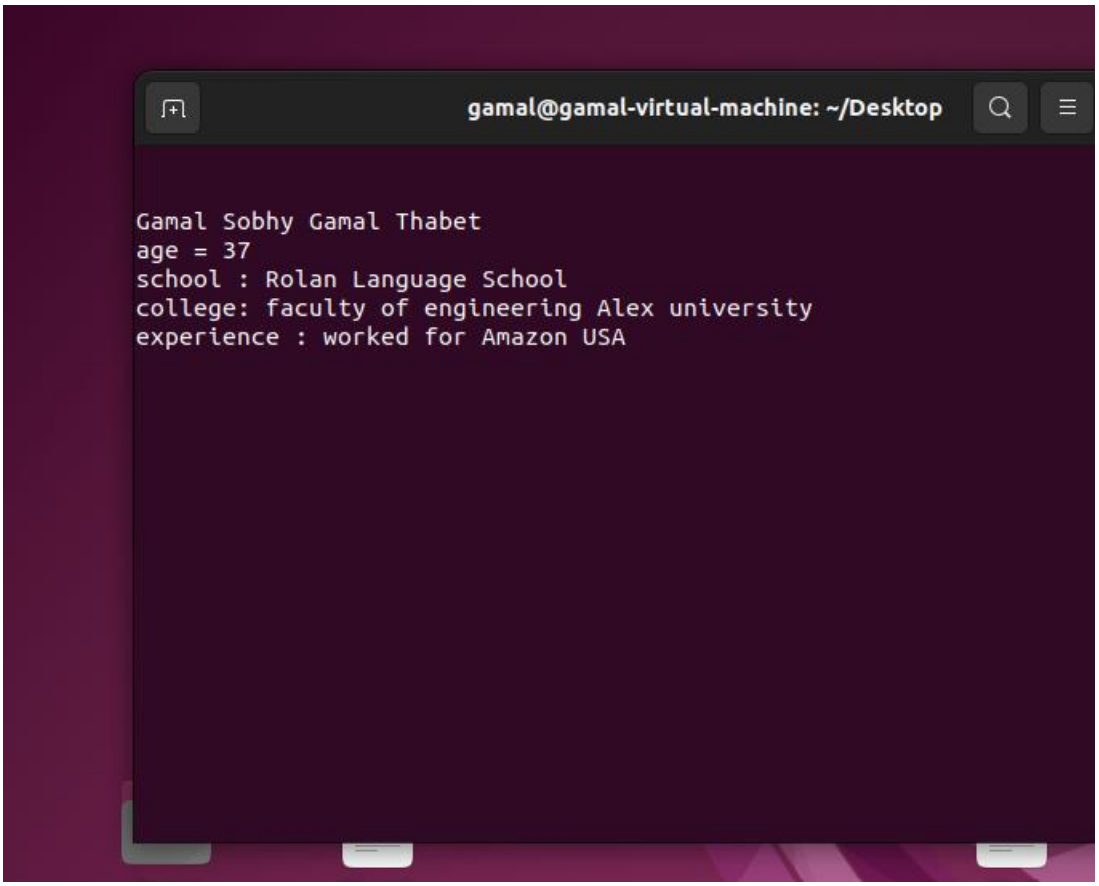
1. Using vi write your CV in the file mycv. Your CV should include your name, age, school, college, experience,..





2. Open mycv file using vi command then: Without using arrows state how to:

a. Move the cursor down one line at time.

by using “o”

b. Move the cursor up one line at time.

by using “O”

c. Search for word age

by using “/age”

d. Step to line 5 (assuming that you are in line 1 and file is more than 5 lines).

by using “5G”

e. Delete the line you are on and line 5.

by using “DD ,5d”

f. How to step to the end of line and change to writing mode in one-step.

by using “e”

3. List the available shells in your system.

Global initilization files

/etc/profile

Intilization files

~/.profile

/etc/bash.bashrc

~/.bash_profile or ~/.bash_login

startup files

~/.bashrc

4. List the environment variables in your current shell.

$HOME

$path

$PWD

$SHELL

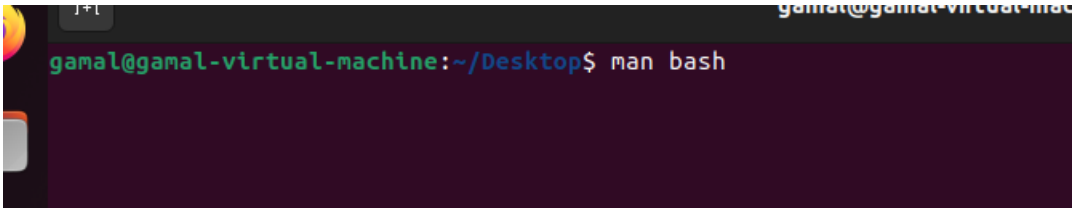
$USER

$HOSTNAME

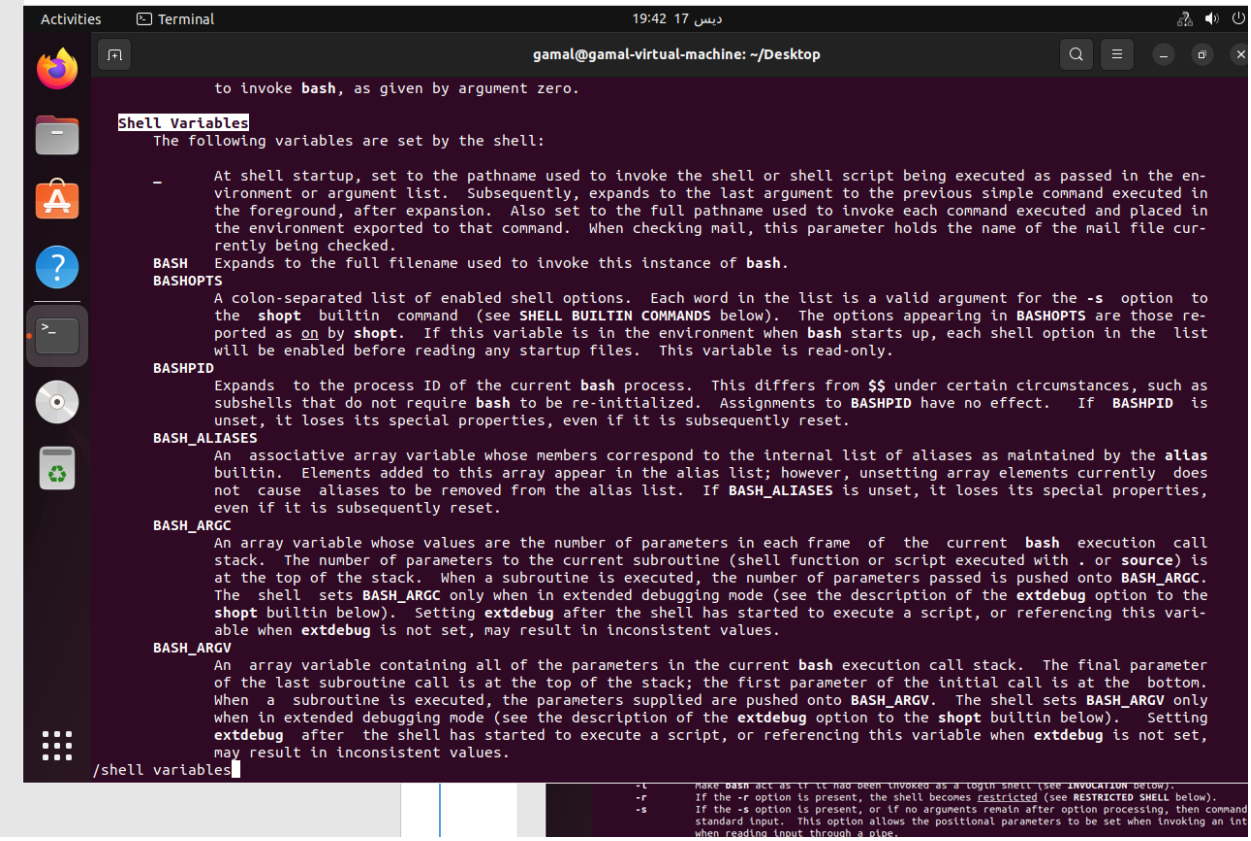
5. List all of the environment variables for the bash shell.

USE THE COMMAND

MAN BASH

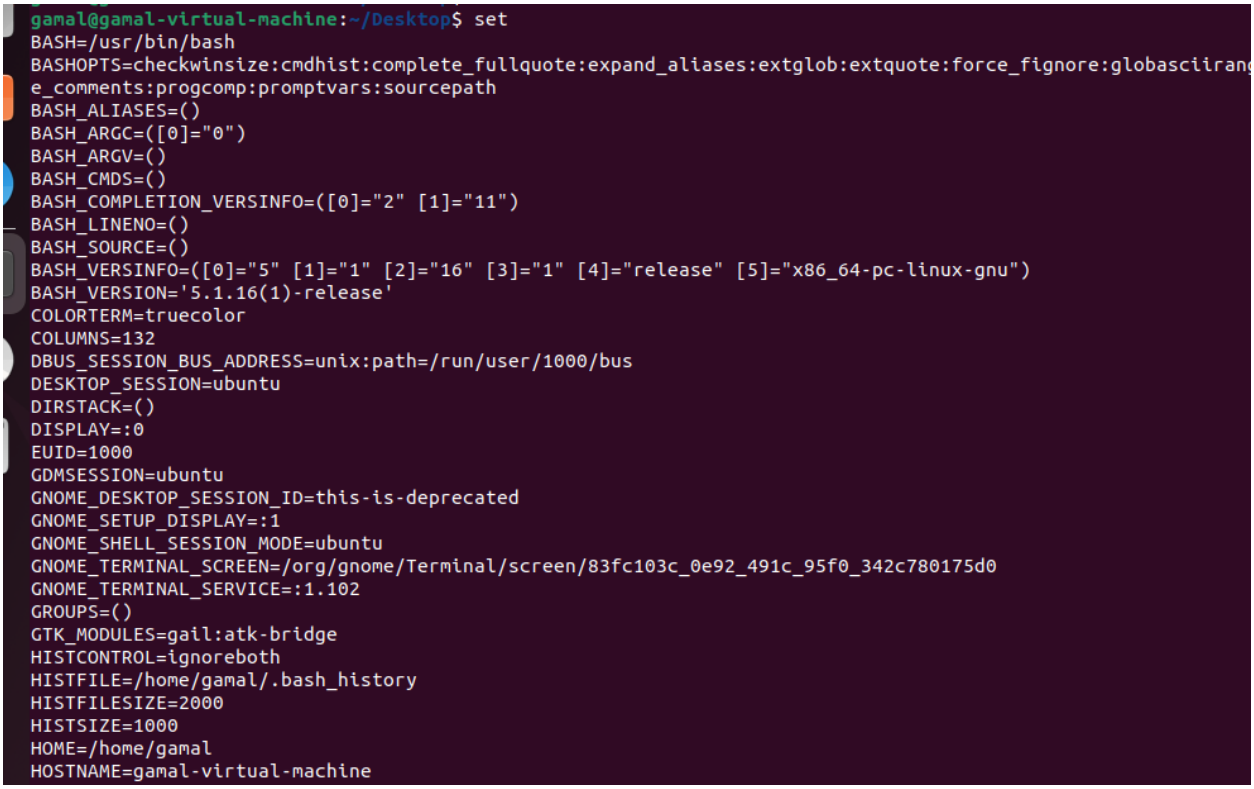


/shell variables



6-What are the commands that list the value of a specific variable?

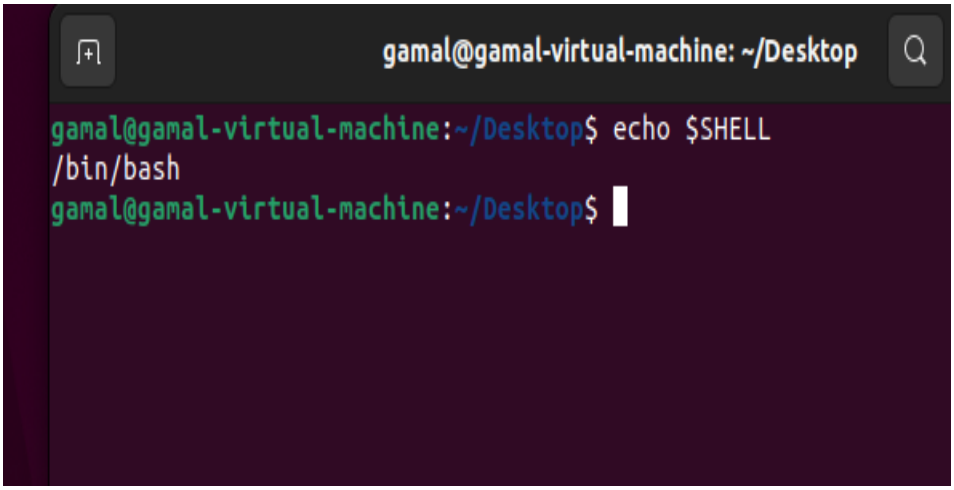
1-set


gamal@gamal-virtual-machine:~/Desktop$ set
BASH=/usr/bin/bash
BASHOPTS=checkwinsize:cmdhist:complete_fullquote:expand_aliases:extglob:extquote:force_fignore:globasciiran
e_comments:progcomp:promptvars:sourcepath
BASH_ALIASES=()
BASH_ARGC=([0]="0")
BASH_ARGV=()
BASH_CMDS=()
BASH_COMPLETION_VERSINFO=([0]="2" [1]="11")
BASH_LINENO=()
BASH_SOURCE=()
BASH_VERSINFO=([0]="5" [1]="1" [2]="16" [3]="1" [4]="release" [5]="x86_64-pc-linux-gnu")
BASH_VERSION='5.1.16(1)-release'
COLORTERM=truecolor
COLUMNS=132
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
DESKTOP_SESSION=ubuntu
DIRSTACK=()
DISPLAY=:0
EUID=1000
GDMSESSION=ubuntu
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GNOME_SETUP_DISPLAY=:1
GNOME_SHELL_SESSION_MODE=ubuntu
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/83fc103c_0e92_491c_95f0_342c780175d0
GNOME_TERMINAL_SERVICE=:1.102
GROUPS=()
GTK_MODULES=gail:atk-bridge
HISTCONTROL=ignoreboth
HISTFILE=/home/gamal/.bash_history
HISTFILESIZE=2000
HISTSIZE=1000
HOME=/home/gamal
HOSTNAME=gamal-virtual-machine

2-env

```
gamal@gamal-virtual-machine:~/Desktop$ env
SHELL=/bin/bash
SESSION_MANAGER=local/gamal-virtual-machine:@/tmp/.ICE-unix/2479,unix/gamal-virtual-machine:/tmp/.ICE-unix/2479
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LC_ADDRESS=ar_EG.UTF-8
GNOME_SHELL_SESSION_MODE=ubuntu
LC_NAME=ar_EG.UTF-8
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
LC_MONETARY=ar_EG.UTF-8
GTK_MODULES=gail:atk-bridge
PWD=/home/gamal/Desktop
LOGNAME=gamal
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=2517
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.BAUOF2
HOME=/home/gamal
USERNAME=gamal
IM_CONFIG_PHASE=1
LC_PAPER=ar_EG.UTF-8
LANG=en_US.UTF-8
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;
41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;
31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*
.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tzst=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.
jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.c
ab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35
:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;
35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.webp=01;35:*.ogm=01;35:*.mp4=
01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=
01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01
;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00
;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
```

7. Display your current shell name



8. State the initialization files of: sh, ksh, bash.

by searching on goggle we ‘ll find the following :

C Shell Initialization Files

C shell initialization files run in a particular sequence after the user logs in to the system. For the C shell, initialization files are run in the following sequence:

1. **Commands in /etc/.login are executed.**
2. **Commands from the $HOME/.cshrc file (located in the user's home directory) are executed. In addition, each time the user starts a new shell or opens a new window in the CDE, commands from $HOME/.cshrc are run.**
3. **The shell executes commands from the $HOME/.login file (located in the user's home directory). Typically, the $HOME/.login file contains commands to specify the terminal type and environment.**
4. **When startup processing is complete, the C shell begins reading commands from the default input device, the terminal.**

Although it is not part of the initialization of the shell, when the C shell terminates, it performs commands from the $HOME/.logout file (if that file exists in the home directory).

Bourne Shell Initialization Files

Bourne shell initialization files run in a particular sequence after the user logs in to the system. For the Bourne shell, initialization files are run in the following sequence:

1. **Commands in /etc/profile are executed.**
2. **Commands from the $HOME/.profile file (located in the user's home directory) are executed. Typically, the $HOME/.profile file contains commands to specify the terminal type and environment.**
3. **When startup processing is complete, the Bourne shell begins reading commands from the default input device, the terminal.**

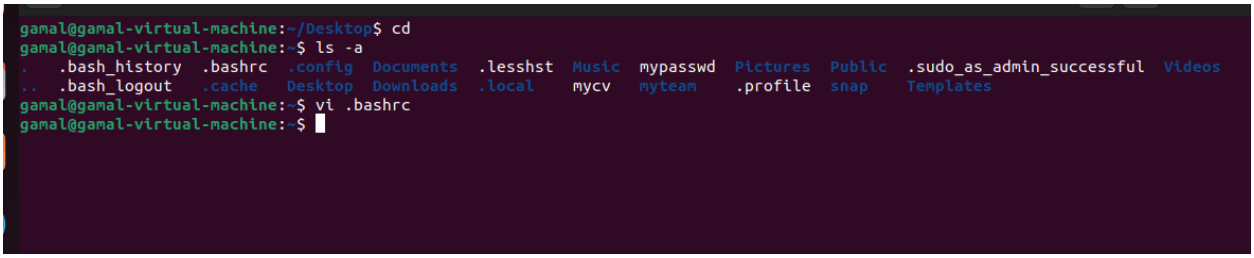
Korn Shell Initialization Files

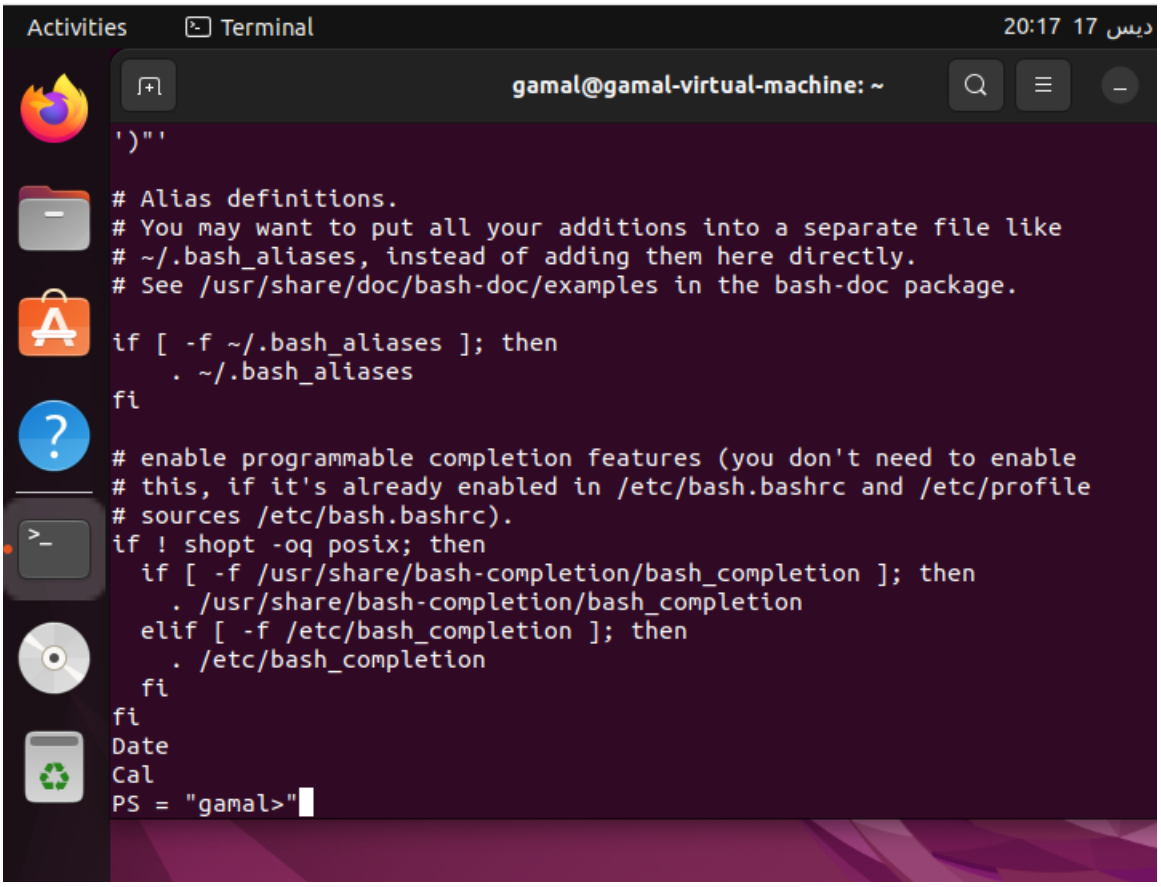
Korn shell initialization files run in a particular sequence after the user logs in to the system. For the Korn shell, initialization files are run in the following sequence:

1. **Commands in /etc/profile are executed.**
2. **Commands from the $HOME/.profile file (located in the user's home directory) are executed. Typically, the $HOME/.profile file contains commands to specify the terminal type and environment.**
3. **If the $HOME/.kshrc file is present, commands located in this file are executed. In addition, this initialization file gets read (and the commands get executed) every time a new Korn shell is started after login.**

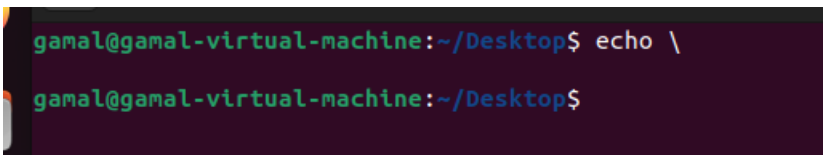
4. **When startup processing is complete, the Korn shell begins reading commands from the default input device, the terminal.**

9. Edit in your profile to display date at login and change your prompt permanently





10.Execute the following command : echo \ then press enter



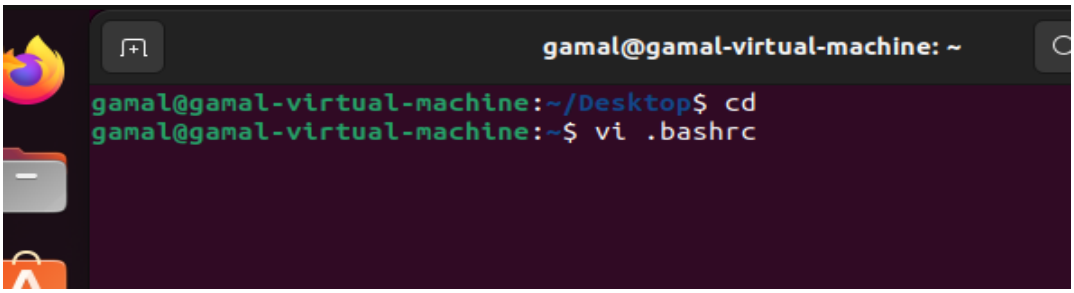
What is the purpose of \ ?

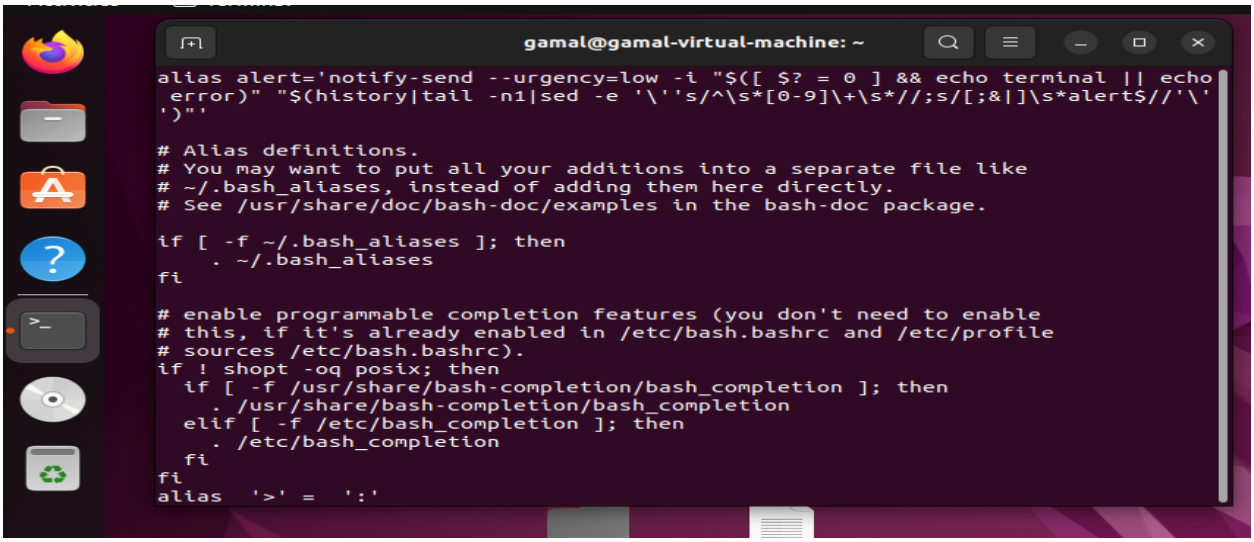
starting new line

Notice the prompt ”>” what is that?

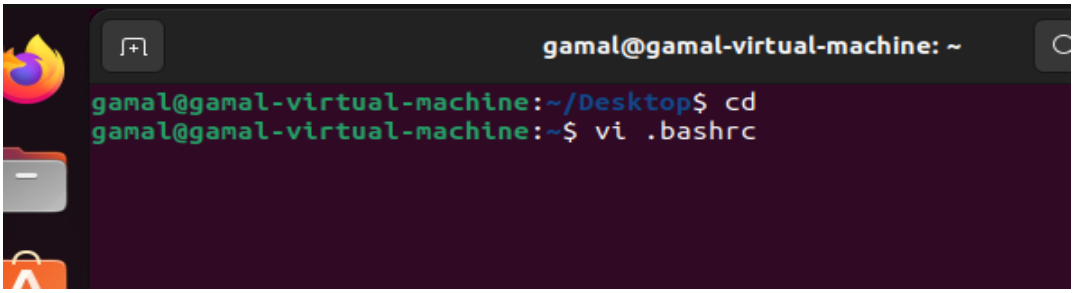
That's indicating that whatever command you typed wasn't complete, and it's still waiting for you to type the rest of it.

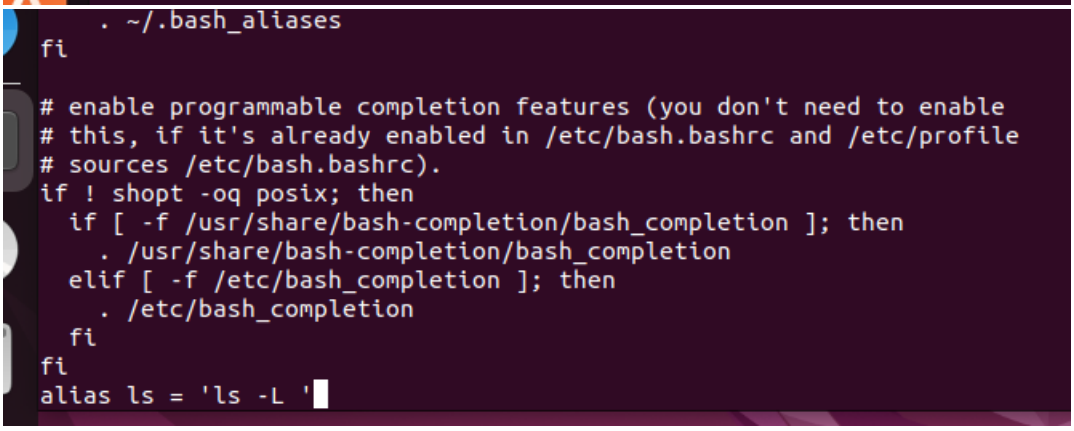
and how can you change it from “>” to “:”





11.Create a Bash shell alias named ls for the “ls –l” command


gamal@gamal-virtual-machine: ~
gamal@gamal-virtual-machine:~/Desktop$ cd
gamal@gamal-virtual-machine:~$ vi .bashrc


. ~/.bash_aliases
fi
# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
if [-f /usr/share/bash-completion/bash_completion]; then
. /usr/share/bash-completion/bash_completion
elif [-f /etc/bash_completion]; then
. /etc/bash_completion
fi
fi
alias ls = 'ls -L '