

## OPERATING SYSTEMS LAB 2

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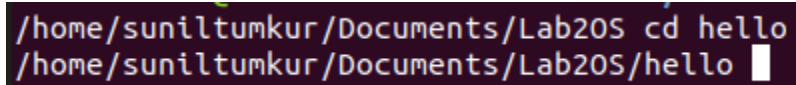
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GROUP # 14

1) cd command



```
/home/suniltumkur/Documents/Lab20S cd hello  
/home/suniltumkur/Documents/Lab20S/hello
```

A terminal window with a dark purple background. The first line shows the prompt and the command 'cd hello'. The second line shows the prompt and the new directory path '/home/suniltumkur/Documents/Lab20S/hello'.

2) clr command



```
/home/suniltumkur/Documents/Lab20S/hello
```

A terminal window with a dark purple background. The screen is mostly empty, with the prompt and directory path '/home/suniltumkur/Documents/Lab20S/hello' visible at the bottom left.

Cleared the entire screen

### 3) dir command

```
/home/suniltumkur/Documents/Lab20S dir
utility.h
utility.c
hello
README.md
myshell
.
utility.o
myshell.o
Makefile
myshell.c
myshell.h
..
```

### 4) environ command

```
/home/suniltumkur/Documents/Lab20S environ
CLUTTER_IM_MODULE=xim
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=4
0;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:*.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:*.ea
r=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:*.cab=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=0
1;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.m
ng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=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=0
1;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp
3=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:
LESSCLOSE=/usr/bin/lesspipe %s %s
XDG_MENU_PREFIX=gnome-
LANG=en_CA.UTF-8
DISPLAY=:0
GNOME_SHELL_SESSION_MODE=ubuntu
COLORTERM=truecolor
USERNAME=suniltumkur
XDG_VTNR=2
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XDG_SESSION_ID=2
USER=suniltumkur
DESKTOP_SESSION=ubuntu
QT4_IM_MODULE=xim
TEXTDOMAINDIR=/usr/share/locale/
```

### 5) echo command

```
/home/suniltumkur/Documents/Lab20S echo hello world
hello world
```

## 6) help command

```
/home/suniltumkur/Documents/Lab20S help
# Operating-Systems
Operating Systems Lab 2 (SOFE 3950U)

## How to run the Shell Program:

1) In order to run the Shell program, use the make command to compile myshell.c file. Once compiling, execute the program using the command: ./myshell (Can also run enter all commands into a file, then include the name of the file as a command line argument to the myshell program: ./myshell batchfile)

## List of Commands:

1) cd ./<directory> - Change current default directory to <directory>. If the <directory> argument is not present then report the current directory. If the directory does not exist then an appropriate error should be reported.
2) clr - Clear the screen
3) dir <directory> - List the contents of the directory <directory>
4) environ - List all environment strings
5) echo <comment> - Display <comment> on the display followed by a new line (multiple spaces/tabs may be reduced to a single space)
6) help - Display the user manual using the more filter
7) pause - Pause operation of the shell until 'Enter' is pressed
8) quit - Quit the shell
9) The shell environment should contain shell=<pathname>/myshell where <pathname>/myshell is the full path for the shell executable (not a hardcoded path back to your directory, but the one from which it was executed)
```

## 7) pause command

```
/home/suniltumkur/Documents/Lab20S pause
Press ENTER key to Continue

/home/suniltumkur/Documents/Lab20S
```

## 8) quit command

```
/home/suniltumkur/Documents/Lab20S quit
suniltumkur@suniltumkur-VirtualBox:~/Documents/Lab20S$
```