Task	Hint
Open the VM and play Linux (Ubuntu)	
Check the Applications menu	
Run the command line	(Dash home -> Terminal)
Identify if you are a normal user or a superuser	whoami
Try to switch to root (superuser) and report what happens	su
Identify your shell	echo \$SHELL
Check the kernel version	uname -r
Check the system distribution	uname -a
Check the glibc version	ls -1 /lib/i386-linux- gnu/libc.so*

Task	Hint
Start Terminal	
Display the list of your files and directories	ls
Check more options about the Is command and	lshelp man ls info ls
display all files	ls -a
3. Clear the screen	clear
Compare the information given by different kinds of help about pwd command	whatis pwd help pwd man pwd info pwd
5. Go to the Downloads directory	cd Downloads
List the files in it	ls
Go to Desktop directory	cd/Desktop
List the files	ls
Go back to Downloads directory	cd/Downloads (or cd -)
Go back to your home directory	cd ~ cd
Review a few used commands with arrow and compare with output from history	history
7. Print the date on the screen	date
Save date into date.txt file	date > date.txt
Add another line with date into that file	date >> date.txt
8. Exit the shell	exit
9. Start terminal again	
print the current directory	pwd

cd Desktop
pwd
cd (or cd - or cd ~)
pwd
cd /tmp
pwd
cd /home/student
ls /
(see slides 46-47)
ls -1 d*
stat date.txt

Task	Hint
Start the Terminal	
Make a directory called Co your home directory	ourseLinux in mkdir CourseLinux
 Copy the directory /usr/shathe created 'CourseLinux' 	1 -
Make a directory called test CourseLinux directory	stin mkdir CourseLinux/test
Make a directory called test CourseLinux directory	st1 in mkdir CourseLinux/test1
Rename test1 into test2	<pre>mv CourseLinux/test1 CourseLinux/test2</pre>
 Copy the files from directo /usr/share/icons to the creations/ 'CourseLinux/test' director 	ated
Change the filename of ph fl.svg in CourseLinux/test of	
Copy the file fl.svg in Cour into fl2.svg in your home d	
Display the new file, close	the display fl2.svg
Create a symbolic link call to CourseLinux/test/fl.svg home directory	
Display mylink2file, close t	display mylink2file (do not forget to close the display)
Remove CourseLinux/test/	rm -i CourseLinux/test/fl.svg
 Try to display again mylink report the problem 	k2file and display mylink2file (do not forget to close the display)
2. Clear the screen	clear
Go to CourseLinux directo	ory cd CourseLinux

Download the file https://sites.google.com/site/frankvanpu yvelde/home/downloadfiles/tabel.dat and matstats.log	wget https://sites.google.com/site /frankvanpuyvelde/home/downlo adfiles/tabel.dat wget https://sites.google.com/site /frankvanpuyvelde/home/downlo adfiles/matstats.log
Show the content of the file tabel.dat and matstats.log	<pre>cat tabel.dat (or less tabel.dat or more tabel.dat) less matstats.log (or more matstats.log)</pre>
Show the last part and the first part of matstat.log (show 30 lines)	tail -30 matstats.log head matstats.log
Check if the patterns ardaa and ardbb appear in the file matstats.log	grep ardaa matstats.log grep ardbb matstats.log
List the files of the directory in less	ls -al less
Check if the file tabel.dat is in the list	ls -al grep tabel.dat
Create a file called test4edit	touch test4edit
Edit the file with Gedit, nano, vi editors	gedit test4edit nano test4edit vi test4edit

Task	Hint
Start the Terminal	
1. Show the path of gcc command	which gcc
 Check the path of libraries for gcc command 	whereis gcc grep lib
Display the current user	whoami
 Display the sentence "I like Linux" with "I" removed and letters converted into capital letters 	echo "I like Linux" tr -d 'I' tr a-z A-Z
 Run the command line calculator and check the result of 1/2 Do the same but display 2 digits 	within bc type 1/2 (enter will show the result) change the display format with scale=2 (confirm with enter) type again 1/2 (enter will display the correct value) to exit bc type quit
Save date to file date.txt	date > date.txt
 Add another line displaying the date into date.txt file 	date >> date.txt
Copy the date.txt into date1.txt file	cp date.txt date1.txt
Add the text "I like Linux" to date1.txt file	echo "I like Linux" >> date1.txt
Add the text "And I do not" to date.txt file	echo "And I do not" >> date.txt paste date1.txt date.txt
 Display the information about changes between date.txt and date1.txt files 	diff date.txt date1.txt
 Check the disk usage of CourseLinux directory 	du -kah CourseLinux
Count words and lines in date.txt file	wc date.txt

- 2. Clear the screen
- Go to CourseLinux directory
- Check if you have icons directory there
- Archive the centos-logos directory
- Archive and gzip the centos-logos directory
- Create a new directory newtest under CourseLinux and unpack the archive into it
- 3. Go to 'CourseLinux' directory
- Create a directory 'testfiles', create in it a file 'file1' containing a few numbers
- Copy file1 into file2, remove the user write permission to file2, edit file2, print the files and permissions in testfiles directory
- Try to edit file2 and add some numbers.
 Does it work?

Change the permissions of the directory 'testfiles': remove write access for the user, print the files and permissions in the current directory

- Try to copy file1 in that directory to a file file3. What happens?
- Remove read all the access to testfiles for the others, print the files and permissions in the current directory
- Try to list the files in testfiles directory.
- Remove read access for the user for testfiles directory, print the files and permissions in the current directory

```
clear
```

cd ~/CourseLinux

ls ico*

tar -cvf ico.tar icons/

tar -czvf ico.tar.gz icons/
mkdir newtest

cd newtest
cp ../ico.tar.gz .
tar -xzvf ico.tar.gz (or tar -xvf
ico.tar)

cd ~/CourseLinux

mkdir testfiles
cd testfiles
touch file1
gedit file1

cp file1 file2
chmod u-w file2
ls -la

gedit file2

cd ..
chmod u-w testfiles
ls -la

cp testfiles/file1
testfiles/file3

chmod o-rwx testfiles
ls -la

ls testfiles

chmod u-r testfiles
ls -la

Try to list the files in testfiles directory. What happens?	ls testfiles
Go to the testfiles directory and go back one level up	cd testfiles cd
Remove read access for the user for testfiles directory, print the files and permissions in the current directory	chmod u-x testfiles ls -la
 Try to go to the testfiles directory. What happens? 	cd testfiles
4. Clear the screen	clear
Check the processes running	ps -aux
 Start the gedit editor (from the command line) 	gedit
Open a second terminal	
Search there for the process id of the gedit editor	in a new terminal: ps -u student grep gedit
Kill the editor	kill <pid> (killall gedit)</pid>
Start the gedit editor in background	gedit &