Command	Name	Usage	Description
echo	echo	echo Hello	It will print (echo) Hello
		ls	It lists files in the current directory
		ls -ltr	It lists files in the long format
			It lists files and adds markers to files and directories to indicate what
ls	list	ls-F	they are:
			a trailing / indicates this is a directory
			an @ indicates a link
			an * indicates an executable
		сd	It changes directory to your home directory
)		cd test	It changes directory to test/
S	cildlige directory		It moves back (up) one directory from or to the parent directory of
		cd	your current directory
mkdir	make directory	mkdir test	It creates a directory called test
rmdir	remove directory	rmdir test	It removes directory test
3		cp file1 test/	It copies file1 to test directory
ç	сору	cp file1 file1.bak	It makes a backup of file1
rm	remove	rm file1	It removes/deletes file1
3		mv file1 file2	It renames file1 to file2
1114		mv file1 test/	It moves file1 into a directory called test
		cat file1	It displays all the contents of file1
cat	concatenate		It combines (concatenates) the content of file1 and file2 and
		cat file1 file2 > file3	redirects (saves) it in file3
less	less	less file1	It views file1 one page at a time
more	more	more file1	It views file1 one page at a time
touch	touch	touch file1	It creates an empty file called file1
nano	nano	nano file1	It creates a new file called file1 and opens it in nano text editor
diff	difference	diff file1 file2	It displays line by line difference between file1 and file2
man	manual	man ls	It displays online manual or help about the Is command
help	help	lshelp	It displays online manual or help about the Is command
			It displays the present working directory, e.g.
pwd	print working directory	pwd	/user/Shell_scripts_2020

Command	Name	Usage	Description
		wc file1	It counts the number of lines (I), words (w) and (characters) in file1
WC	word count	wc -l file1	It counts the number of lines (I) in file1
		wc -w file1	It counts the number of words (w) in file1
		wc -c file1	It counts the number of (characters) in file1
gzip	G zip	gzip file1	It compresses file1 to produce file1.gz
gunzip	G unzip	gunzip file1.gz	It uncompresses file1.gz to produce file1
) }	5:-+-	history	It lists all the commands which have been recently used
I II SLOI Y	IIISTOLA	history > file1	It saves all the commands which have been recently used in file1
			This will sort the contents of file1 and display sorted output on the
sort	sort	sort file1	screen
head	head	head file1	It displays the first 10 lines of file1
tail	tail	tail file1	It displays the last 10 lines of file1
		grep Hello file1	It searches for the lines containing Hello in file1
מ	<u> </u>	grep -c Hello file1	It gives count or number of lines that contains Hello in file1
			It searches in the current directory (.) and in all its subdirectories for
find	find	findname '*.t' -print	files ending with .t, and writes their names in the output
			It will 'cut out' (extract) the second field (f) (column) from file1
cut	cut	cut -d, -f 2 file1	containing commas (,) as the delimiter (d)
			It will filter out adjacent matching lines in file1, i.e. it will remove
uniq	unique	uniq file1	duplicate lines (NB! File should be sorted before using uniq)

It provides write (w) permission to file1 by [others]	o=w file1	o: others	
It provides execute (x) permission to file1 by [all/everybody]	a+x file1	a: all	
[group] and [others]	go-rwx file1	g: group	
It removes read (r), write (w) and execute (x) permissions to file1 by			
It provides read and execute permission to file1 by [owner/user]	u=rx file1	u: owner/user	
Letter permissions			
Only [owner/user] can access file1	chmod 700 file1	0,: none	
It provides execute-only permission to file1 by [everyone else]	chmod 771 file1	1,x: execute only	
else]	chmod 722 file1	2, -w-: write only	
It provides write-only permission to file1 by [group] and [everyone			
It provides write and execute permission to file1 by [everyone else]	chmod 763 file1	3, -wx: write and execute	
else]	chmod 744 file1	4, r: read-only	
It provides read-only permission to file1 by [group], and [everyone			
It provides read and execute permission to file1 by [everyone else]	chmod 775 file1	5, r-x: read and execute	
[everyone else]	chmod 766 file1	6, rw-: read and write	
It provides read and write permission to file1 by [group], and			
[everyone else]	e chmod 777 file1	7, rwx: read, write, and execute	
It provides full access to file1 by [owner/user], [group], and			
Numerical permissions			
		[][]	
		change access permission	chmod
Description	Usage	d Name	Command

sorted numerically (n)	wc -l *.txt sort -n	pipe	
current directory and send the output to the sort command to be			-
It will count the number of lines (I) in all files ending with *.txt in the			
append Hello to the contents in file1	echo Hello >> file1	append redirect	Ÿ
It will redirect (save) the output of the echo command to file1 and			
overwrite contents in file1	echo Hello > file1	redirect	٧
It will redirect (save) the output of the echo command to file1 and			
Description	Usage	Name	Symbol

Loops: apply one or more commands separately to each	ch file in a set of files
Example	Description
of Hendine III Hiez.txt Hiez.txt	
do	For each file in the list (file1.txt, file2.txt, file3.txt), execute the head -
head -n 2 \$filename tail -n 1	n 2 command (i.e. show the first two lines), and pipe this output to
done	the tail -n 1 command (i.e. show the last line of the previous two
	lines). Note: output will be printed to the terminal.
for x in *.txt	
do	
cp \$x \$x_backup	For each file in the list (*.txt, i.e. all files ending with .txt), execute
mv \$x_backup test/	the cp command (i.e. make a copy of the file and add 'backup' to
done	the filename), then move (mv) the backup file into the test directory.

Loops: apply one or more commands separately to	each file in a set of files
Example	Description
for filename in file1.txt file2.txt file3.txt	
do	For each file in the list (file1.txt, file2.txt, file3.txt), execute the head -
head -n 2 \$filename tail -n 1	n 2 command (i.e. show the first two lines), and pipe this output to
done	the tail -n 1 command (i.e. show the last line of the previous two
	lines). Note: output will be printed to the terminal.
for x in *.txt	
do	
cp \$x \$x_backup	For each file in the list (*.txt, i.e. all files ending with .txt), execute
mv \$x_backup test/	the cp command (i.e. make a copy of the file and add 'backup' to
done	the filename), then move (mv) the backup file into the test directory.
Shell scripts: save and re-use commands	nands
Example	Description
Create a new script by typing nano script.sh	Create a new file
Add the following text: # Script to find unique names in csy files where names are in the second data field	
# Script to find unique names in csv files where names are in the second data field # This script accepts any number of file names as command line arguments	This will be a comment in the script (i.e. not a command) Another comment
for file in \$@	Another comment Start the for loop
do echo "Unique names in Sfile:"	do (part of the for loop)
# Extract names	Comment
cut -d , -f 2 \$file sort uniq	Cut sort and unin commands executed in sequence using pines
done	done (part of the for loop)
Use Ctrl+O to save the script and Ctrl+X to exit from nano	
Type script.sh to run the script	