Lecture 12

--would that work if i add a small space between entries? experiment somedata has a small csv list of uk-500 companies. print firstname lastname and address. \$ cut -d"," -f 1,2,4 somedata

--- exit status

Every command that is executed return back a value 1 if failed and 0 if succeed. You can get it by \$echo \$?

--- write about if clauses see l10-ifthen.sh

--How can you get rid of "cp: cannot stat ..." (Hint: bit bucket) 110-ifthenv2.sh

----using if with numbers see l10-ifelsenumbercomparison.sh

--comparison operators are

-eq equal to

-ne not equal to

lt less than

-le less than or equal to

-gt greater than

-ge greater than or equal to

ATTENTION: watch out for space after [and before]

--Exercise: write a program to check for a single character input, i.e. reads an input and prints "single character" message if input is single character.

Hint pipe to wc -c why?

Hint: does it work? Have you considered carriage return? what?

NOT INCLUDE: if ['echo \$var | wc -c' -eq 2] # 2 to count carriage return

You also have logical operators such as

-a for and

-o for or

see l10-logicaland.sh

Exercise: write a program to extend the previous exercise and check for a single character and then if the character

is a,b or c prints the message "abc" and otherwise print the message "notABC".

- ---- working with files
- checking somethis is file not a directory

\$ if [-f sample]; then echo "file exist"; fi

- -- there are a whole bunch of file operations:
- -s file exists and is not empty
- -f file exists and is not a directory
- -d directory exists
- -x file is executable
- -w file is writable
- -r file is readable
- -z File has 0 character return t

Exercise: write a script that checks if a file exists and is writeable. Print appropriate messages.

Exercise: write a program to add index.html file into every directory that does not have one.

--- until do done see example 112-01-untildodone.sh

----- Internal file separator used when sequences are separated see example l12-02-IFS.sh Good practice is to researve a variable for the old IFS and set it back·

----- sed

Stream editor used when want to replace format cat afile | sed 's/pattern/replacement' \$ echo window | sed 's/o/0/' | sed 's/i/1/' w1nd0w

This replaces the FIRST occurance. If you want all occurrences add g

What would this do? \$ echo `ls -al` | sed 's/o/0/g' | sed 's/i/1/g' > afile

deleting something is done with '/pattern/d' What does this do? \$ sed '/^\$/d' afile

Exercise: write a program that replaces numberical values with number in a file. For example 123 replaced with OneTwoThree. (Hint if you dont want to make a new file just use sed -i)

You can use any regular expression and you can use & to match it. Suppose you want to put words in paranthesis for example abc in (abc) $\$ echo My plug in baby |sed 's/w+/(&)/g'| (My) (plug) (in) (baby)

a good tutorial on sed is at http://www.grymoire.com/Unix/Sed.html