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CT30A3370 Käyttöjärjestelmät ja systeemiohjelmointi

Viikkotehtävä 8.

1. I am using ubuntu version 20.04 through virtual box, and the default desktop environment is called Gnome. The default editor that gnome uses is called Gedit. Gedit can be used by typing command gedit to the terminal, or manually by opening the text editor by searching gedit/text editor from the desktop.
2. I was unable to test the command in assignment 2, so I had to test out ssh connection by setting up my own Github account and connecting it with my ubunutu.

```
eemil@eemil-VirtualBox:~$ ssh -T git@github.com
Hi EemilAsp! You've successfully authenticated, but GitHub does not provide shell access.
eemil@eemil-VirtualBox:~$
```

   Currently I am connected to my github and I am able to transfer data between my local and remote system (ubuntu / github).
3.

```
eemil@eemil-VirtualBox:~$  echo $SHELL
/bin/bash
eemil@eemil-VirtualBox:~$ echo \$SHELL
$SHELL
eemil@eemil-VirtualBox:~$ echo \\$SHELL
\/bin/bash
eemil@eemil-VirtualBox:~$ echo \\\$SHELL
\$SHELL
eemil@eemil-VirtualBox:~$ echo '\$'
\$
eemil@eemil-VirtualBox:~$ echo \\
\
eemil@eemil-VirtualBox:~$ echo \\\\
\\
eemil@eemil-VirtualBox:~$ echo "\$"
$
eemil@eemil-VirtualBox:~$ echo '"$'
"$
eemil@eemil-VirtualBox:~$ echo "$"
$
eemil@eemil-VirtualBox:~$
```

4.

```
eemil@eemil-VirtualBox:~$ chmod +x myshell.sh
eemil@eemil-VirtualBox:~$ ./myshell.sh hello world whats up
./myshell.sh
hello
world
whats
up
eemil@eemil-VirtualBox:~$
```

```
1 #!/bin/bash
2
3 echo $0
4 for i; do
5     echo $i
6 done
```

5.

```
#!/bin/bash


if [ "$#" -eq  "0" ]
   then
     echo "usage: search_page command"
 else
     find /usr/share/man -name "$1*" -print
fi

```

```
eemil@eemil-VirtualBox:~$ ./search_page printf
/usr/share/man/man1/printf.1.gz
/usr/share/man/man3/printf.3.gz
eemil@eemil-VirtualBox:~$
```

6.

```
#! /bin/sh

#Sources https://linuxhint.com/sed_remove_whitespace/, https://unix.stackexchange.com/questions/41479/find-n-most-frequent-words-in-a-file


if [ "$#" -eq  "0" ]
   then
     echo "usage: count filename.txt"
 else
     cat "$1" | sed -r 's/[[:space:]]+/\n/g' | sed '/^$/d' | sort | uniq -c | sort -nr | head -10
fi
```

```
eemil@eemil-VirtualBox: ~
eemil@eemil-VirtualBox:~$ ./count text.txt
    482 the
    412 I
    365 and
    270 to
    248 of
    233 a
    205 in
    184 And
    179 you
    176 my
eemil@eemil-VirtualBox:~$
```

I also found that the script could be operated in the terminal, shown below:

```
eemil@eemil-VirtualBox:~$ cat text.txt | sed -r 's/[[:space:]]+/\n/g' | sed '/^$
/d' | sort | uniq -c | sort -nr | head -10
    482 the
    412 I
    365 and
    270 to
    248 of
    233 a
    205 in
    184 And
    179 you
    176 my
eemil@eemil-VirtualBox:~$
```