1.

labinf18:~/ex1 $ rm -r /export/home/stud/s234358/ex1/test/t1

rm: remove regular file '/export/home/stud/s234358/ex1/test/t1'? y

labinf18:~/ex1 $ cp /export/home/stud/s234358/ex1/test/text01.txt /export/home/stud/s234358/ex1/test/text01

labinf18:~/ex1 $ cd test

labinf18:~/ex1/test $ ln -s /export/home/stud/s234358/ex1/test/text01 t1

2.

labinf18:~/ex1/bin $ rm t2

rm: remove regular file 't2'? y

labinf18:~/ex1/bin $ ln -s /export/home/stud/s234358/ex1/test/t1 t2

3.

labinf18:~/ex1/bin $ ln -s /export/home/stud/s234358/ex1/test/t2 t3

labinf18:~/ex1/bin $ ln -s /export/home/stud/s234358/ex1/test/t3 t4

labinf18:~/ex1/bin $ ln -s /export/home/stud/s234358/ex1/test/t4 t5

It seems there is no limit to the creation of soft links.

4.

labinf18:~/ex1/bin $ cd ..

labinf18:~/ex1 $ ls -lR

.:

total 0

drwxr-xr-x 2 s234358 Domain Users 62 ott 5 12:10 bin/

drwxr-xr-x 4 s234358 Domain Users 42 ott 5 10:28 src/

lrwxrwxrwx 1 s234358 Domain Users 41 ott 5 11:48 t1 -> /export/home/stud/s234358/ex1/test/text01

drwxr-xr-x 4 s234358 Domain Users 78 ott 5 12:06 test/

./bin:

total 0

lrwxrwxrwx 1 s234358 Domain Users 37 ott 5 12:07 t2 -> /export/home/stud/s234358/ex1/test/t1

lrwxrwxrwx 1 s234358 Domain Users 2 ott 5 12:09 t3 -> t2

lrwxrwxrwx 1 s234358 Domain Users 2 ott 5 12:10 t4 -> t3

lrwxrwxrwx 1 s234358 Domain Users 2 ott 5 12:10 t5 -> t4

./src:

total 0

drwxr-xr-x 2 s234358 Domain Users 6 ott 5 10:28 include/

drwxr-xr-x 2 s234358 Domain Users 6 ott 5 10:28 lib/

./src/include:

total 0

./src/lib:

total 0

./test:

total 4

drwxr-xr-x 2 s234358 Domain Users   6 ott 5 10:38 result/

drwxr-xr-x 2 s234358 Domain Users   6 ott 5 10:29 script/

lrwxrwxrwx 1 s234358 Domain Users   41 ott 5 12:06 t1 -> /export/home/stud/s234358/ex1/test/text01

-rw-r--r-- 1 s234358 Domain Users 1868 ott 3 13:53 text01.txt

./test/result:

total 0

./test/script:

total 0

5.

The number of links associated to each file represents the number of hard links, and not the number of soft links.

6.

labinf18:~/ex1 $ rm -r /export/home/stud/s234358/ex1/test/text01

rm: remove regular file '/export/home/stud/s234358/ex1/test/text01'? y

labinf18:~/ex1 $ cat /export/home/stud/s234358/ex1/bin/t4

cat: /export/home/stud/s234358/ex1/bin/t4: No such file or directory

It doesn't work because it'a soft link. A soft link is a kind of file that contains the path to an object.

Removing the file implies the path is no more valid and then the softlink becomes obsolete because it s pointing to an

non existing file.

7.

labinf18:~/ex1 $ rm -R bin

rm: descend into directory 'bin'? y

rm: remove symbolic link 'bin/t2'? y

rm: remove symbolic link 'bin/t3'? y

rm: remove symbolic link 'bin/t4'? y

rm: remove symbolic link 'bin/t5'? y

rm: remove directory 'bin'? n