

Operációs rendszerek

3.Gyak.

2022.02.23.

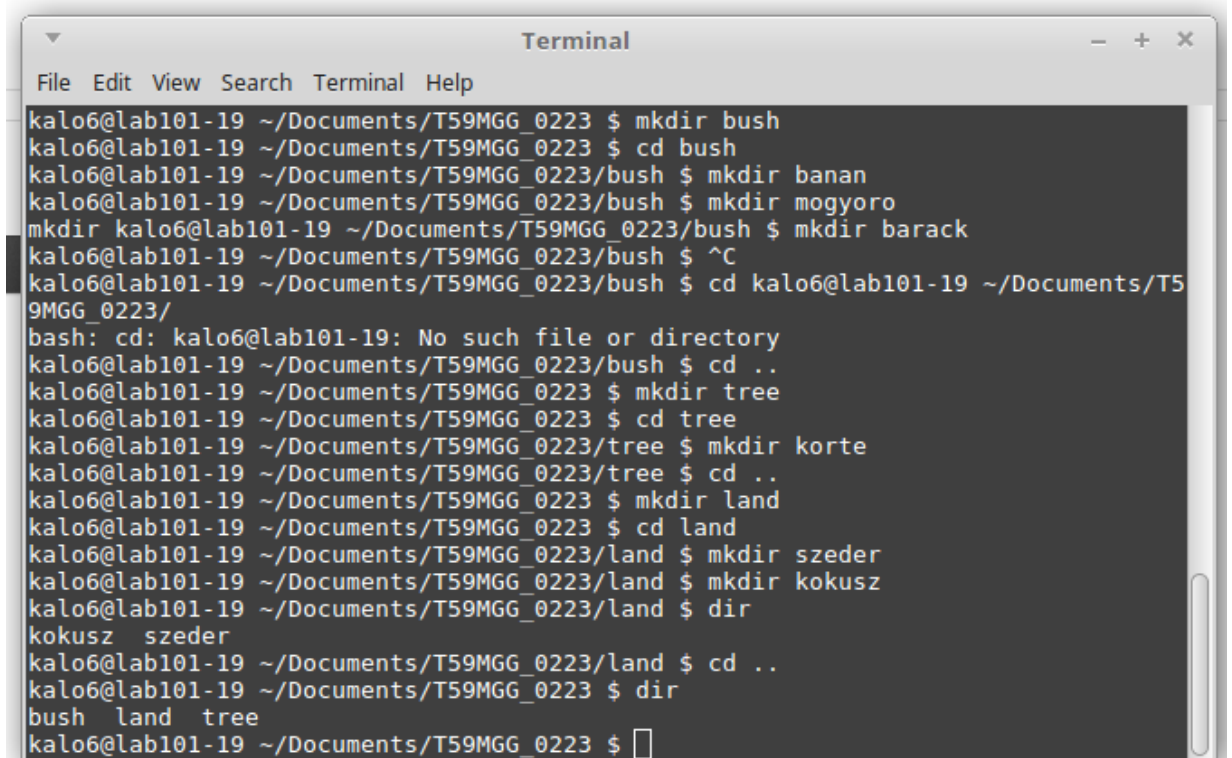
Készítette:

Kaló István Bsc T59MGG

Miskolc, 2022

1.Feladat

1. Hozza létre a következő jegyzék szerkezetet, majd listázza ki.

A screenshot of a macOS Terminal window titled "Terminal". The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal shows a series of commands and their outputs. The user is at the prompt "kalo6@lab101-19" in the directory "~/Documents/T59MGG_0223". The commands executed are: "mkdir bush", "cd bush", "mkdir banan", "mkdir mogyoro", "mkdir barack", "cd ..", "cd ..", "mkdir tree", "cd tree", "mkdir korte", "cd ..", "mkdir land", "cd land", "mkdir szeder", "mkdir kokusz", "dir", "cd ..", "dir". The output of the "dir" command shows the directory structure: "bush land tree". The prompt is now "kalo6@lab101-19 ~/Documents/T59MGG_0223 \$".

```
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ mkdir bush
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ mkdir banan
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ mkdir mogyoro
mkdir kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ mkdir barack
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ ^C
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd kalo6@lab101-19 ~/Documents/T5
9MGG_0223/
bash: cd: kalo6@lab101-19: No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ mkdir tree
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd tree
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ mkdir korte
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ mkdir land
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd land
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ mkdir szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ mkdir kokusz
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ dir
kokusz  szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ dir
bush  land  tree
kalo6@lab101-19 ~/Documents/T59MGG_0223 $
```

Itt a teljes létrehozási folyamat látható, illetve dir paranccsal le is kérdeztem a könyvtárakat.

2. Készítsen másolatot:

- a neptunkod/ land/szeder katalógusról a neptunkod/tree katalógusba
- a neptunkod /bush/banan katalógusról a neptunkod /tree katalógusba

```
Terminal
File Edit View Search Terminal Help
cp: cannot stat '/Documents/T59MGG_0223/land/szeder': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp
cp: missing file operand
Try 'cp --help' for more information.
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ ^C
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp /Documents/T59MGG_0223/land /Documents/T59MGG_0223/bush
cp: cannot stat '/Documents/T59MGG_0223/land': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp land ../bush
cp: cannot stat 'land': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp szeder ../bush
cp: omitting directory 'szeder'
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ dir
kokusz szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ ls
kokusz szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp szeder ../bush -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cp banan ../tree
cp: omitting directory 'banan'
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cp banan ../tree -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd land
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd szeder ../tree -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/land/szeder $
```

Átmásoltam a fileokat.

3. Végezze el a következő áthelyezéseket:

- a neptunkod / bush /barack katalógust helyezze át a neptunkod /tree katalógusba
- a neptunkod /land /kokusz katalógust helyezze át a neptunkod/tree katalógusba

```
Terminal
File Edit View Search Terminal Help
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp land ../bush
cp: cannot stat 'land': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp szeder ../bush
cp: omitting directory 'szeder'
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ dir
kokusz szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ ls
kokusz szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp szeder ../bush -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cp banan ../tree
cp: omitting directory 'banan'
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cp banan ../tree -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd land
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd szeder ../tree -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/land/szeder $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cp barack ../tree -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd land
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cp kokusz ../tree -r
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $
```

4. Törölje a neptunkod/land katalógust a teljes tartalmával. Hozza létre a következő szöveges állományokat:
- neptunkod/bush/banan/ description
 - neptunkod/tree/listing

```
Terminal
File Edit View Search Terminal Help
csira.jpg Documents eclipse-workspace mail Music Public Templates valami2 Videos
Desktop Downloads ezeqyhtml.html Maildir Pictures sent valami valami4
kalo6@lab101-19 ~ $ cd Documents
kalo6@lab101-19 ~/Documents $ cd T59MGG_0223
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ rmdir land
rmdir: failed to remove 'land': Directory not empty
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd land
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ ls
kokusz szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ rmdir kokusz
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ rmdir szeder
kalo6@lab101-19 ~/Documents/T59MGG_0223/land $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ rmdir land
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd banan
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ touch description.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd tree
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ touch listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ cd
kalo6@lab101-19 ~ $ cd Documents
kalo6@lab101-19 ~/Documents $ cd T59MGG
bash: cd: T59MGG: No such file or directory
kalo6@lab101-19 ~/Documents $ cd T59MGG_0223
kalo6@lab101-19 ~/Documents/T59MGG_0223 $
```

5. A description szöveges állományba írjon 3 sort a málnáról. A listing szöveges állományba soroljon fel külön sorba 5 olyan gyümölcsöt, amelyek tree teremnek.

```
Terminal
File Edit View Search Terminal Help
kalo6@lab101-19 ~/Documents $ cd T59MGG_0223
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd banan
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ touch description.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ touch description.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ echo a malna finom, a malna piros, a malna
malna, a malna nem banan, a banan nem malna > description.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd tree
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo alma -e barack -e szilva -e kokusz -e eper -
e
alma -e barack -e szilva -e kokusz -e eper -e
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo alma -e barack -e szilva -e kokusz -e eper -
e > listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo alma -e barack -e szilva -e kokusz -e eper \
n > listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo alma -e barack -e szilva -e kokusz \n eper \
n > listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo alma -e barack -e szilva -e kokusz /n eper \
n > listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo -e "alma -e barack -e szilva -e kokusz \n ep
er \n" > listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ echo -e "alma \n barack \n szilva \n kokusz \n ep
er \n" > listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $
```

6. Listázza a neptunkod katalógus tartalmát úgy, hogy megjelenjen az alkatalógusok tartalma is. Ezután listázza az aktuális (munka)katalógus nevét.

```
Terminal
File Edit View Search Terminal Help
No command 'sdir' found, did you mean:
Command 'vdir' from package 'coreutils' (main)
Command 'dir' from package 'coreutils' (main)
Command 'svdir' from package 'svtools' (multiverse)
Command 'ddir' from package 'ddir' (universe)
Command 'hdir' from package 'hfsutils' (main)
Command 'cdir' from package 'cdtool' (universe)
Command 'mdir' from package 'mtools' (main)
Command 'sdir' from package 'pdns-tools' (universe)
Command 'sdir' from package 'sdcc' (universe)
sdir: command not found
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ vdir
total 0
drwxr-xr-x 6 kalo6 stud2021 78 Feb 23 14:22 bush
drwxr-xr-x 6 kalo6 stud2021 98 Feb 23 14:34 tree
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls -R
.:
bush tree

./bush:
banan barack mogyoro szeder

./bush/banan:
description.txt

./bush/barack:

./bush/mogyoro:

./bush/szeder:

./tree:
banan barack kokusz korte listing.txt

./tree/banan:

./tree/barack:

./tree/kokusz:

./tree/korte:
kalo6@lab101-19 ~/Documents/T59MGG_0223 $
```

7. Térjen vissza a saját home katalógusába és keresse meg az összes olyan file-t, amelyek nevének második betűje e.

```
Terminal
File Edit View Search Terminal Help

./bush/banan:
description.txt

./bush/barack:

./bush/mogyoro:

./bush/szeder:

./tree:
banan  barack  kokusz  korte  listing.txt

./tree/banan:

./tree/barack:

./tree/kokusz:

./tree/korte:
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d 2.e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d */e/
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d */e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d /*e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls ?c*
ls: cannot access '?c*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls ?e*
ls: cannot access '?e*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ dir ?e*
dir: cannot access '?e*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls | grep "^e"
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls ?e*
ls: cannot access '?e*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $
```

8. Tegye mindenki számára olvashatóvá a listing file-t.

```
Terminal
File Edit View Search Terminal Help
./bush/barack:
./bush/mogyoro:
./bush/szeder:
./tree:
banan  barack  kokusz  korte  listing.txt
./tree/banan:
./tree/barack:
./tree/kokusz:
./tree/korte:
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d 2.e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d */e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d */e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ locate -d /*e
locate: no pattern to search for specified
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls ?c*
ls: cannot access '?c*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls ?e*
ls: cannot access '?e*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ dir ?e*
dir: cannot access '?e*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls | grep "^e"
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls ?e*
ls: cannot access '?e*': No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd tree
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ chmod u+rw listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ chmod +rw listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ chmod a+r listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $
```

9. Listázza ki, hogy mennyi helyet foglal a merevlemezén a neptunkod katalógus az alkatalógusaival együtt. Az alkatalógusok méretei ne jelenjenek meg.

```
Terminal
File Edit View Search Terminal Help
kalo6@lab101-19 ~ $ cd Documents
kalo6@lab101-19 ~/Documents $ cd T59MGG_0223
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ ls -la
total 0
drwxr-xr-x 4 kalo6 stud2021  40 Feb 23 14:26 .
drwxr-xr-x 9 kalo6 stud2021 154 Feb 23 14:15 ..
drwxr-xr-x 6 kalo6 stud2021  78 Feb 23 14:22 bush
drwxr-xr-x 6 kalo6 stud2021  98 Feb 23 14:34 tree
kalo6@lab101-19 ~/Documents/T59MGG_0223 $
```


10. Listázza ABC-szerint rendezve a listing file tartalmát

```
Terminal
File Edit View Search Terminal Help
drwxr-xr-x 6 kalo6 stud2021 98 Feb 23 14:34 tree
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd tree
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ liz
liz: command not found
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ list
No command 'list' found, did you mean:
Command 'klist' from package 'krb5-user' (universe)
Command 'klist' from package 'heimdal-clients' (universe)
Command 'lift' from package 'lift' (universe)
Command 'hist' from package 'loki' (universe)
Command 'bist' from package 'bist' (universe)
Command 'last' from package 'util-linux' (main)
Command 'flist' from package 'nmh' (universe)
Command 'gist' from package 'yorick' (universe)
Command 'dist' from package 'nmh' (universe)
list: command not found
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ sort -b listing.txt

alma
barack
eper
kokusz
szilva
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $
```

11. Számolja meg a description file-ban szereplő szavakat.

```
Terminal
File Edit View Search Terminal Help
Command 'hist' from package 'loki' (universe)
Command 'bist' from package 'bist' (universe)
Command 'last' from package 'util-linux' (main)
Command 'flist' from package 'nmh' (universe)
Command 'gist' from package 'yorick' (universe)
Command 'dist' from package 'nmh' (universe)
list: command not found
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ sort -b listing.txt

alma
barack
eper
kokusz
szilva
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ wc -w listing.txt
5 listing.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/tree $ cd ..
kalo6@lab101-19 ~/Documents/T59MGG_0223 $ cd bush
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ wc -w description.txt
wc: description.txt: No such file or directory
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush $ cd banan
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $ wc -w description.txt
17 description.txt
kalo6@lab101-19 ~/Documents/T59MGG_0223/bush/banan $
```