# lab 7 | Managing Data

#### Question 1

```
riguel@miguel-VirtualBox:~/lab7$ cd question1
riguel@miguel-VirtualBox:~/lab7/question1$ ls
                                     mynotes.txt Pineapple-89.jpg something.txt
Banana_78.png my-fortune.txt Papaya.svg sentences.txt Video.mp4
niguel@miguel-VirtualBox:~/lab7/question1$ tar cd allfiles.tar *.txt *[0-9].{jpg,png,svg} Video.mp4
tar: You may not specify more than one '-Acdtrux', '--delete' or '--test-label' option
Try 'tar --help' or 'tar --usage' for more information.
         iguel-VirtualBox:~/lab7/question1$ tar -tf allfiles.tar
tar: allfiles.tar: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
miguel@miguel-VirtualBox:~/lab7/question15 tar cd allfiles.tar *.txt *[0-9].{jpg,png,svg} Video.mp4
tar: You may not specify more than one '-Acdtrux', '--delete' or '--test-label' option
Try 'tar --help' or 'tar --usage' for more information.
           guel-VirtualBox:~/lab7/question1$ tar cf allfiles.tar *.txt *[0-9].{jpg,png,svg} Video.mp4
tar: *[0-9].svg: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
 iguel@miguel-VirtualBox:~/lab7/question1$ tar cf allfiles.tar *.txt *[0-9]*.{jpg,png,svg} Video.mp4
 riguel@miguel-VirtualBox:~/lab7/question1$ tar -tf allfiles.tar
my-fortune.txt
mynotes.txt
sentences.txt
something.txt
Pineapple-89.jpg
Banana_78.png
89-Berries.svg
Video.mp4
niguel@miguel-VirtualBox:~/lab7/question1$ lorem > randomtext.txt
niguel@miguel-VirtualBox:~/lab7/question1$ ls
 9-Berries.svg Banana_78.png my-fortune.txt Papaya.svg
                                                                             randomtext.txt something.txt
vilfiles.tar Mangoes.svg mynotes.txt Pineapple-89.
niguel@miguel-VirtualBox:~/lab7/question1$ ls randomtext.txt
                                                        Pineapple-89.jpg sentences.txt
randomtext.txt
        miguel-VirtualBox:~/lab7/question1$ cat randomtext.txt
Doloremque iusto nesciunt aliquam blanditiis accusamus. Non dolorem quis ea. Nobis deserunt eos molestiae
occaecati. Saepe ex eos sit.miguel@miguel-VirtualBox:~/lab7/question1$ tar -rr allfiles.tar randomtext.t
xt
 riguel@miguel-VirtualBox:~/lab7/question1$ tar -tf allfiles.tar
my-fortune.txt
mynotes.txt
sentences.txt
something.txt
Pineapple-89.jpg
Banana_78.png
89-Berries.svg
Video.mp4
randomtext.txt
 riguel@miguel-VirtualBox:~/lab7/question1$
```

## Question 2

```
riguel@miguel-VirtualBox:~/lab7/question1$ mv allfiles.tar
mv: missing destination file operand after 'allfiles.tar'
Try 'mv --help' for more information.
miguel@miguel-VirtualBox:~/lab7/question15 mv allfiles.tar ../question2/miguel@miguel-VirtualBox:~/lab7/question15 cd ../question2/miguel@miguel-VirtualBox:~/lab7/question2$ ls
 niguel@miguel-VirtualBox:~/lab7/question2$                                  cpio -iv < allfiles.tar
my-fortune.txt
mynotes.txt
sentences.txt
something.txt
Pineapple-89.jpg
Banana_78.png
89-Berries.svg
Video.mp4
randomtext.txt
9972 blocks
 riguel@miguel-VirtualBox:~/lab7/question2$ ls
randomtext.txt something.txt
39-Berries.svg my-fortune.txt Pineapple-89.jpg sentences.txt Video.mp4
3anana_78.png mynotes.txt randomtext<mark>.txt something.txt</mark>
Banana_78.png mynotes.txt randomtext.txt something.txt
miguel@miguel-VirtualBox:~/lab7/question2$ ls | cpio -ov > allmyfiles.cpio
89-Berries.svg
cpio: File allmyfiles.cpio grew, 853504 new bytes not copied
allmyfiles.cpio
Banana_78.png
my-fortune.txt
mynotes.txt
Pineapple-89.jpg
randomtext.txt
sentences.txt
something.txt
Video.mp4
11625 blocks
 riguel@miguel-VirtualBox:~/lab7/question2$ ls
                                       mynotes.txt
                                                              randomtext.txt something.txt
                    my-fortune.txt Pineapple-89.jpg sentences.txt Video.mp4
         riguel-VirtualBox:~/lab7/question2$ [ls | cplo -ovH tar -r allmyriles.tar
cpio: Too many arguments
Try 'cpio --help' or 'cpio --usage' for more information.
 niguel@miguel-VirtualBox:~/lab7/question2$ ls
39-Berries.svg Banana_78.png mynotes.txt
                                                           randomtext.txt something.txt
                   my-fortune.txt Pineapple-89.jpg sentences.txt
 niguel@miguel-VirtualBox:~/lab7/question2$ ls | cpio -ovH tar -F allmyfiles.tar
89-Berries.svg
allmyfiles.cpio
cpio: File allmyfiles.tar grew, 6807040 new bytes not copied
allmyfiles.tar
Banana_78.png
my-fortune.txt
mynotes.txt
Pineapple-89.jpg
randomtext.txt
sentences.txt
something.txt
Video.mp4
34894 blocks
niguel@miguel-VirtualBox:~/lab7/question2$ ls
39-Berries.svg <u>allmyfiles.tar</u> my-fortupe to
                                      my-fortune.txt Pineapple-89.jpg sentences.txt Video.mp4
mynotes.txt randomtext.txt something.txt
```

```
miguel@miguel-VirtualBox:~/lab7/question25 rm allfiles.tar
miguel@miguel-VirtualBox:~/lab7/question25 rm allmyfiles.cpio
miguel@miguel-VirtualBox:~/lab7/question25 rm *.{png,txt,jpg}
miguel@miguel-VirtualBox:~/lab7/question25 rm *.{svg} Video.mp4
rm: cannot remove '*.{svg}': No such file or directory
miguel@miguel-VirtualBox:~/lab7/question25 rm *.svg Video.mp4
rm: cannot remove 'Video.mp4': No such file or directory
miguel@miguel-VirtualBox:~/lab7/question25 rm *.svg
rm: cannot remove '*.svg': No such file or directory
miguel@miguel-VirtualBox:~/lab7/question25 ls
allmyfiles.tar
miguel@miguel-VirtualBox:~/lab7/question25
```

#### Question 3

```
riguel@miguel-VirtualBox:~/lab7/question2$ cd ../question3/
miguel@miguel-VirtualBox:~/lab7/question3$ ls
miguel@miguel-VirtualBox:~/lab7/question3$ lorem > mynotes.txt
miguel@miguel-VirtualBox:~/lab7/question3$ ls
mynotes.txt
riguel@miguel-VirtualBox:~/lab7/question3$ ls -lh
total 4.0K
-rw-rw-r-- 1 miguel miguel 303 Dec 10 16:<mark>58 mynotes.txt</mark>
niguel@miguel-VirtualBox:~/lab7/question3$ lorem >> mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$ lorem >> mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$ lorem >> mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$ ls -lh
total 4.0K
-rw-rw-r-- 1 miguel miguel 862 Dec 10 16:59 mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$ curl http://metaphorpsum.com/sentences/100 >> mynotes.txt
 % Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
00 6326 0 6326 0 0 19645 0 --:--:-- 19645
100 6326
niguel@miguel-VirtualBox:~/lab7/question3<mark>: ls -lh</mark>
total 8.0K
-rw-rw-r-- 1 miguel miguel 7.1K Dec 10 17:00 mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$
miguel@miguel-VirtualBox:~/lab7/question3$ bzip2 -k mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$ xz -k mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question3$ ls -lh
-rw-rw-r-- 1 miguel miguel 7.1K Dec 10 17:00 mynotes.txt
-rw-rw-r-- 1 miguel miguel 2.9K Dec 10 17:00
-rw-rw-r-- 1 miguel miguel 2.9K Dec 10 17:00
-rw-rw-r-- 1 miquel miquel 2.9K Dec 10 17:00
miguel@miguel-VirtualBox:~/lab7/guestion3$
```

## Question 4

```
niguel@miguel-VirtualBox:~/lab7/question3$ cd ../question4/
niguel@miguel-VirtualBox:~/lab7/question4$ ls
niguel@miguel-VirtualBox:~/lab7/question4$ gzip -dkc < ../question3/mynotes.txt.gz > mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question4$ ls
 iguel@miguel-VirtualBox:~/lab7/question4$ mv mynotes.txt mynotes2.txt
 niguel@miguel-VirtualBox:~/lab7/question4$ bzip2 -dkc < ../question3/mynotes.txt.bz2 > mynotes.txt
niguel@miguel-VirtualBox:~/lab7/question4$ ls
mynotes2.txt mynotes.txt
 niguel@miguel-VirtualBox:~/lab7/question4$ mv mynotes.txt mynotes3.txt
niguel@miguel-VirtualBox:~/lab7/question4$ xz -dkc < ../question3/mynotes.txt.xz > mynotes.txt
 iguel@miguel-VirtualBox:~/lab7/question4$ ls
mynotes2.txt mynotes3.txt mynotes.txt
miguel@miguel-VirtualBox:~/lab7/question4$ zip notestaken.zip mynotes.txt mynotes2.txt mynotes3.txt
  adding: mynotes.txt (deflated 60%)
  adding: mynotes2.txt (deflated 60%)
  adding: mynotes3.txt (deflated 60%)
               l-VirtualBox:~/lab7/question4$ ls
mynotes2.txt mynotes3.txt mynotes.txt
 riguel@miguel-VirtualBox:~/lab7/question4$ 7z a notestaken.7z mynotes.txt mynotes2.txt mynotes3.txt
7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21
p7zip Version 16.02 (locale=en_US.UTF-8,Utf16=on,HugeFiles=on,64 bits,2 CPUs AMD Ryzen 5 3600 6-Core Proc
essor
                        (870F10),ASM,AES-NI)
Scanning the drive:
3 files, 21564 bytes (22 KiB)
Creating archive: notestaken.7z
Items to compress: 3
Files read from disk: 3
Archive size: 3127 bytes (4 KiB)
Everything is Ok
 iguel@miguel-VirtualBox:~/lab7/question4$ ls notestaken.7z
mynotes2.txt mynotes3.txt mynotes.txt
 iguel@miguel-VirtualBox:~/lab7/question4$ rar a notestaken.rar mynotes.txt mynotes2.txt mynotes3.txt
RAR 5.50 Copyright (c) 1993-2017 Alexander Roshal
                                                                 11 Aug 2017
Trial version
                               Type 'rar -?' for help
Evaluation copy. Please register.
Creating archive notestaken.rar
Adding
            mynotes.txt
                                                                                    OK
Adding
           mynotes2.txt
                                                                                    OK
Adding
            mynotes3.txt
                                                                                    OK
Done
 riguel@miguel-VirtualBox:~/lab7/question4$
```