Lab | Managing Data

Question 1 | Tar Utility

```
koto@koto: ~/lab7/question1                                    Q  ≡  _  □  ✕

koto@koto:~/lab7/question1$ ls
89-Berries.svg   Mangoes.svg        mynotes.txt    Pineapple-89.jpg   something.txt
Banana_78.png    my-fortune.txt  Papaya.svg    sentences.txt      Video.mp4
koto@koto:~/lab7/question1$ tar cf allfiles.tar *.txt *[0-9]*.{jpg,png,svg} Vide
o.mp4
koto@koto:~/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
koto@koto:~/lab7/question1$
```

```
koto@koto: ~/lab7/question1                                    Q  ≡  _  □  ✕

koto@koto:~/lab7/question1$ lorem >  randomtext.txt
koto@koto:~/lab7/question1$ cat randomtext.txt
Aut est est iure voluptatem. Laudantium adipisci voluptas ipsam nulla ducimus si
milique. Quidem quaerat iste velit sed perspiciatis sit amet a. Sit quo veniam e
xpedita necessitatibus. Deleniti et cupiditate tenetur corporis aperiam et volup
tatum. Sit cumque labore illo maiores.koto@koto:~/lab7/question1$ curl http://me
taphorpsum.com/sentences/5
They were lost without the heapy narcissus that composed their anatomy. A chalk
sees a plantation as a fatal suede. Framed in a different way, some trichoid era
s are thought of simply as employees. The literature would have us believe that
a podgy botany is not but an author. A client of the architecture is assumed to
be a plaguy path.koto@koto:~/lab7/question1$ curl http://metaphorpsum.com/senten
ces/5 > sentence.tx
bash: sentencences/5: No such file or directory
koto@koto:~/lab7/question1$ curl http://metaphorpsum.com/sentences/5 > sentence.
tx
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   396    0   396    0     0   1960      0 --:--:-- --:--:-- --:--:--   1970
koto@koto:~/lab7/question1$
```

```
koto@koto:~/lab7/question1$ tar -rf allfiles.tar sentence.tx
koto@koto:~/lab7/question1$ tar -tf allfiles.tar
file
sentence.tx
```

Question 2 | Cpio Utility

Question 3 | Gzip, bzip2, xz

```
koto@koto:~/lab7/question2$ cd ../question3
koto@koto:~/lab7/question3$ lorem > mynotes.txt
koto@koto:~/lab7/question3$ ls
mynotes.txt
koto@koto:~/lab7/question3$ ls -l
total 4
-rw-rw-r-- 1 koto koto 203 Dec  6 16:07 mynotes.txt
koto@koto:~/lab7/question3$ curl http://metaphorpsum.com/sentences/50 >> mynotes
.txt
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  3231    0  3231    0     0  13987      0 --:--:-- --:--:-- --:--:-- 13926
koto@koto:~/lab7/question3$ ls -lh
total 4.0K
-rw-rw-r-- 1 koto koto 3.4K Dec  6 16:09 mynotes.txt
koto@koto:~/lab7/question3$ 
```

```
koto@koto:~/lab7/question3$ gzip -k mynotes.txt
koto@koto:~/lab7/question3$ bzip2 -k mynotes.txt
koto@koto:~/lab7/question3$ xz -k mynotes.txt
koto@koto:~/lab7/question3$ ls -lh
total 1.6M
-rw-rw-r-- 1 koto koto 3.5K Dec  6 16:20 mynotes.txt
-rw-rw-r-- 1 koto koto 1.7K Dec  6 16:20 mynotes.txt.bz2
-rw-rw-r-- 1 koto koto 1.7K Dec  6 16:20 mynotes.txt.gz
-rw-rw-r-- 1 koto koto 1.8K Dec  6 16:20 mynotes.txt.xz
-rw-rw-r-- 1 koto koto 1.5M Dec  6 16:14 Richard_Stallman.jpg
-rw-rw-r-- 1 koto koto  48K Dec  6 16:13 SecondBrain.png
koto@koto:~/lab7/question3$ 
```

Question 4 | Zip, 7zip and Rar

question

```
koto@koto:~/lab7/question4$ zip allfiles.zip mynotes.txt mynotes2.txt mynotes3.txt
  adding: mynotes.txt (deflated 53%)
  adding: mynotes2.txt (deflated 53%)
  adding: mynotes3.txt (deflated 53%)
koto@koto:~/lab7/question4$ ls
allfiles.zip  mynotes2.txt  mynotes3.txt  mynotes.txt
koto@koto:~/lab7/question4$
```

```
koto@koto:~/lab7/question4$ 7z a zpipfile.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 11th Gen I
ntel(R) Core(TM) i7-1165G7 @ 2.80GHz (806C1),ASM,AES-NI)

Scanning the drive:
3 files, 10515 bytes (11 KiB)

Creating archive: zpipfile.7z

Items to compress: 3


Files read from disk: 3
Archive size: 1932 bytes (2 KiB)
Everything is Ok
```

```
koto@koto:~/lab7/question4$ rar a rarfile.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 rarfile.rar

Adding    mynotes.txt                                                  OK
Adding    mynotes2.txt                                                 OK
Adding    mynotes3.txt                                                 OK
Done
```