Managing Data | Lab 7
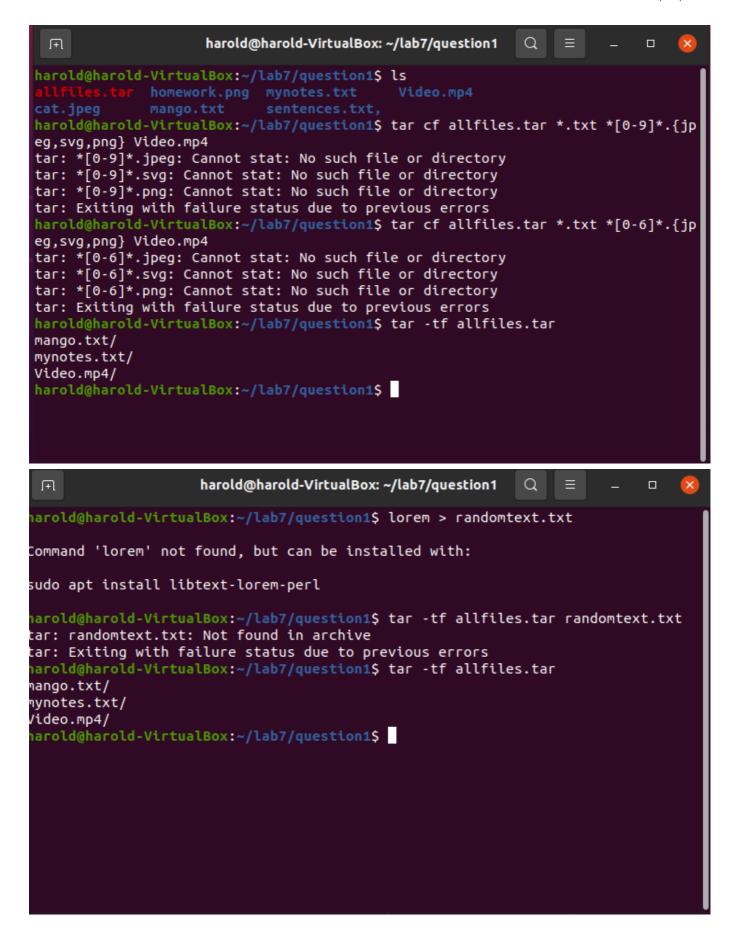
Question 1

```
harold@harold-VirtualBox: ~/lab7/question1

harold@harold-VirtualBox:~/lab7/question1$ ls
allfiles.tar   homework.png   mynotes.txt       Video.mp4
cat.jpeg       mango.txt      sentences.txt,
harold@harold-VirtualBox:~/lab7/question1$ tar cf allfiles.tar *.txt *[0-9]*.{jp
eg,svg,png} Video.mp4
tar: *[0-9]*.jpeg: Cannot stat: No such file or directory
tar: *[0-9]*.svg: Cannot stat: No such file or directory
tar: *[0-9]*.png: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
harold@harold-VirtualBox:~/lab7/question1$ tar cf allfiles.tar *.txt *[0-6]*.{jp
eg,svg,png} Video.mp4
tar: *[0-6]*.jpeg: Cannot stat: No such file or directory
tar: *[0-6]*.svg: Cannot stat: No such file or directory
tar: *[0-6]*.png: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
harold@harold-VirtualBox:~/lab7/question1$ tar -tf allfiles.tar
mango.txt/
mynotes.txt/
Video.mp4/
harold@harold-VirtualBox:~/lab7/question1$
```

```
harold@harold-VirtualBox: ~/lab7/question1

harold@harold-VirtualBox:~/lab7/question1$ lorem > randomtext.txt

Command 'lorem' not found, but can be installed with:

sudo apt install libtext-lorem-perl

harold@harold-VirtualBox:~/lab7/question1$ tar -tf allfiles.tar randomtext.txt
tar: randomtext.txt: Not found in archive
tar: Exiting with failure status due to previous errors
harold@harold-VirtualBox:~/lab7/question1$ tar -tf allfiles.tar
mango.txt/
mynotes.txt/
Video.mp4/
harold@harold-VirtualBox:~/lab7/question1$
```

Question 2

```
harold@harold-VirtualBox: ~/lab7/question2

harold@harold-VirtualBox:~/lab7/question2$ cpio -iv < allfiles.tar
cpio: read error: Is a directory
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg   my-fortune.txt      randomtext.txt   Video.mp4
allfiles.tar     mynotes.txt         sentences.txt
Banana_78.png    Pineapple-89.jpeg   something.txt
harold@harold-VirtualBox:~/lab7/question2$ rm *.tar
rm: cannot remove 'allfiles.tar': Is a directory
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg   my-fortune.txt      randomtext.txt   Video.mp4
allfiles.tar     mynotes.txt         sentences.txt
Banana_78.png    Pineapple-89.jpeg   something.txt
harold@harold-VirtualBox:~/lab7/question2$
```

```
harold@harold-VirtualBox:~/lab7/question2$ cpio -iv < allfiles.tar
cpio: read error: Is a directory
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg  my-fortune.txt      randomtext.txt  Video.mp4
allfiles.tar    mynotes.txt         sentences.txt
Banana_78.png   Pineapple-89.jpeg   something.txt
harold@harold-VirtualBox:~/lab7/question2$ rm *.tar
rm: cannot remove 'allfiles.tar': Is a directory
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg  my-fortune.txt      randomtext.txt  Video.mp4
allfiles.tar    mynotes.txt         sentences.txt
Banana_78.png   Pineapple-89.jpeg   something.txt
harold@harold-VirtualBox:~/lab7/question2$ ls | cpio -ovH tar -F burrito.tar
89-Berries.svg/
allfiles.tar/
Banana_78.png/
my-fortune.txt/
mynotes.txt/
Pineapple-89.jpeg/
randomtext.txt/
sentences.txt/
something.txt/
Video.mp4/
12 blocks
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg  burrito.tar      Pineapple-89.jpeg  something.txt
allfiles.tar    my-fortune.txt  randomtext.txt     Video.mp4
Banana_78.png   mynotes.txt      sentences.txt
harold@harold-VirtualBox:~/lab7/question2$ rm -r *.{txt,svg,png,mp4,jpg}
rm: cannot remove '*.{txt,svg,png,mp4,jpg}': No such file or directory
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg  burrito.tar      Pineapple-89.jpeg  something.txt
allfiles.tar    my-fortune.txt  randomtext.txt     Video.mp4
Banana_78.png   mynotes.txt      sentences.txt
harold@harold-VirtualBox:~/lab7/question2$ rm -r *.{txt,svg,png,mp4,jpeg}
harold@harold-VirtualBox:~/lab7/question2$ ls
allfiles.tar  burrito.tar
harold@harold-VirtualBox:~/lab7/question2$ cpio -idv -F burrito.tar
89-Berries.svg
allfiles.tar
Banana_78.png
my-fortune.txt
mynotes.txt
Pineapple-89.jpeg
```

```
11 blocks
harold@harold-VirtualBox:~/lab7/question2$ ls
89-Berries.svg   burrito.tar      Pineapple-89.jpeg  something.txt
allfiles.tar     my-fortune.txt   randomtext.txt     Video.mp4
Banana_78.png    mynotes.txt      sentences.txt
harold@harold-VirtualBox:~/lab7/question2$
```

Question 3

```
harold@harold-VirtualBox:~/lab7/question3$ ls -lh
total 4.0K
drwxrwxr-x 2 harold harold 4.0K Dec 12 13:23 mynotes.txt
harold@harold-VirtualBox:~/lab7/question3$ ls
mynotes.txt
harold@harold-VirtualBox:~/lab7/question3$ gzip -k mynotes.txt
gzip: mynotes.txt is a directory -- ignored
harold@harold-VirtualBox:~/lab7/question3$ bzip2 -k mynotes.txt
bzip2: Input file mynotes.txt is a directory.
harold@harold-VirtualBox:~/lab7/question3$ xz -k mynotes.txt
xz: mynotes.txt: Is a directory, skipping
harold@harold-VirtualBox:~/lab7/question3$ ls -lh
total 4.0K
drwxrwxr-x 2 harold harold 4.0K Dec 12 13:23 mynotes.txt
harold@harold-VirtualBox:~/lab7/question3$
```

Question 4

```
harold@harold-VirtualBox:~/lab7/question4$ gzip -dkc < ../question3/mynotes.txt.gz > mynotes.txt
bash: ../question3/mynotes.txt.gz: No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ ls
mynotes2.txt  mynotes3.txt  mynotes.txt
harold@harold-VirtualBox:~/lab7/question4$ mv mynotes.txt mynotes2.txt
harold@harold-VirtualBox:~/lab7/question4$ ls
mynotes2.txt  mynotes3.txt
harold@harold-VirtualBox:~/lab7/question4$ bzip2 -dkc < ../question3/mynotes.txt.bz2 > mynotes.txt
bash: ../question3/mynotes.txt.bz2: No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ ls
mynotes2.txt  mynotes3.txt
harold@harold-VirtualBox:~/lab7/question4$ mv mynotes.txt mynotes3.txt
mv: cannot stat 'mynotes.txt': No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ ls
mynotes2.txt  mynotes3.txt
harold@harold-VirtualBox:~/lab7/question4$ xz -dkc < ../question3/mynotes.txt.xz > mynotes.txt
bash: ../question3/mynotes.txt.xz: No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ mkdir mynotes4.txt
harold@harold-VirtualBox:~/lab7/question4$ mv mynotes.txt mynotes4.txt
mv: cannot stat 'mynotes.txt': No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ ls
mynotes2.txt  mynotes3.txt  mynotes4.txt
harold@harold-VirtualBox:~/lab7/question4$
```

```
harold@harold-VirtualBox:~/lab7/question4$ gzip -dkc < ../question3/mynotes.txt.gz > newfileq4
bash: ../question3/mynotes.txt.gz: No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ bzip2 -dkc < ../question3/mynotes.txt.bz2 > newfileq2
bash: ../question3/mynotes.txt.bz2: No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ xz -dkc < ../question3/mynotes.txt.xz > newfile423
bash: ../question3/mynotes.txt.xz: No such file or directory
harold@harold-VirtualBox:~/lab7/question4$ ls
mynotes2.txt  mynotes3.txt  mynotes4.txt
```

```
harold@harold-VirtualBox:~/lab7/question4$ zip archive *
  adding: mynotes2.txt/ (stored 0%)
  adding: mynotes3.txt/ (stored 0%)
  adding: mynotes4.txt/ (stored 0%)
harold@harold-VirtualBox:~/lab7/question4$ ls
archive.zip  mynotes2.txt  mynotes3.txt  mynotes4.txt
```

```
harold@harold-VirtualBox:~/lab7/question4$ 7z a archive.7z *

Command '7z' not found, but can be installed with:

sudo apt install p7zip-full

harold@harold-VirtualBox:~/lab7/question4$ sudo apt instal p7zip-full
[sudo] password for harold:
E: Invalid operation instal
harold@harold-VirtualBox:~/lab7/question4$ sudo apt instal p7zip-full
E: Invalid operation instal
harold@harold-VirtualBox:~/lab7/question4$ 7z a archive.7z *

Command '7z' not found, but can be installed with:
```