





Introduction to Linux Systems

Bash and Shell Scripts













Lab1: Personalize Primary Prompt

- Change the original style of the primary prompt with the following requirements:
 - New color
 - Extend with your student id
 - Replace "\$" with "#"

Example:

liunx@VirtualBox:~\$



liunx@VirtualBox-P12345678:~#







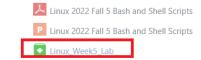


• The given directory "Linux_Week5_Lab" has the following contents:

Week5

Moodle \(\frac{1}{2}\)

```
Linux_Week5_Lab/
```



compressed_files/ (all .zip .rar .tar.gz and unknown files)student_id (the list of student id for uncompressing files)

```
liunx@VirtualBox:~/Liunx_Week5_Lab$ ls
compressed_files student_id
```









- Giving a bunch of compressing files named with student id, the files will be .zip, .tar, .rar and unknown.
- Using the student ID list to find out
 - who did not hand in files. (record into missing_list)
 - who hand in the incorrect file format. (record into wrong_list)

```
liunx@VirtualBox:~/Liunx_Week5_Lab/compressed_files$ ls
P10091040.zip P18396343.dika P26756678.tar.gz P35547323.dika
P10138142.tar.gz P18546236.zip P26780897.rar P35779840.zip
P10141482.tar.gz P18700949.rar P26781298.tar.gz P35850824.zip
P10159028.zip P18712104.zip P26795519.dika P35903115.dika
P10178862.tar.gz P18745499.dika P27243542.tar.gz P36044007.dika
P10421072.zip P18939784.zip P27433719.dika P36159072.zip
P10739882.tar.gz P19083860.zip P27440245.rar P36279527.dika
P10912834.tar.gz P19100823.dika P27444351.dika P36688837.rar
P10975653.rar P19228357.rar P27462814.tar.gz P36704223.dika
P11035606.tar.gz P19257355.dika P27530760.zip P36781942.tar.gz
```

```
liunx@VirtualBox:~/Liunx_Week5_Lab$ cat student_id
P84563590
P36159072
P53909738
P17244921
P35130347
P58075648
P19789379
P10421072
P60346858
P57182337
P85283367
P80923612
P46379543
P15226931
P21097326
P40457009
```









- The files will be .zip, .tar, .rar and unknown, please classify them into four groups.
 - Uncompressing tool: \$ sudo apt install tar unzip unrar
- Finally, uncompress them all except unknown files.

```
liunx@VirtualBox:~/Liunx_Week5_Lab/compressed_files$ ls
P10091040.zip P18396343.dika P26756678.tar.gz P35547323.dika
P10138142.tar.gz P18546236.zip P26780897.rar P35779840.zip
P10141482.tar.gz P18700949.rar P26781298.tar.gz P35850824.zip
P10159028.zip P18712104.zip P26795519.dika P35903115.dika
P10178862.tar.gz P18745499.dika P27243542.tar.gz P36044007.dika
P10421072.zip P18939784.zip P27433719.dika P36159072.zip
P10739882.tar.gz P19083860.zip P27440245.rar P36279527.dika
P10912834.tar.gz P19100823.dika P27444351.dika P36688837.rar
P10975653.rar P19228357.rar P27462814.tar.gz P36704223.dika
P11035606.tar.gz P19257355.dika P27530760.zip P36781942.tar.gz
```



liunx@VirtualBox:~/Liunx_Week5_Lab/compressed_files\$ ls
rar tar.gz unknown zip

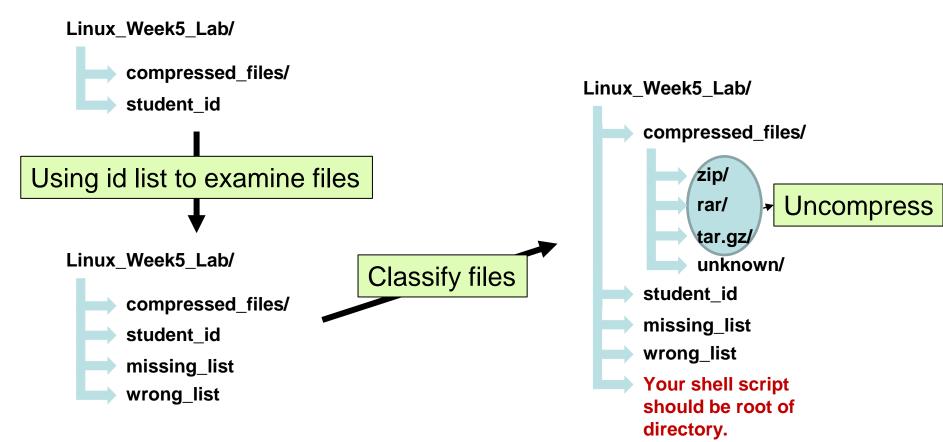








The flow of overall steps and final directory tree.





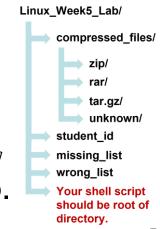






Video Demo

- Due Date (Upload in Moodle): 18:00 on 4/7 Fri.
- Correctness (60%) & Explanation (40%)
- You shall upload two videos and the compressed file of Linux_Week5_Lab.
- Lab1 (20%)
 - Record the video to show how you edit the Primary Prompt.
- Lab2 (80%)
 - Record the video to show how your shell script works and explain the detail of your code. (do not exceed 5 minutes)
 - Upload the compressed file of Linux_Week5_Lab













QUESTIONS