# Assignment 4

# Chapter exam: 10,11,12 (50 Points)

# Lab work: (50 Points)

1. Show the using of all “tar” command options. Ex: Use the "-C" option to extract the contents of each directory to a separate subdirectory within the new directory and etc. (at least 10) and show the using of different compressing commands: GZIP, BZIP2, XZ.
2. Create a compressed archive of a directory called "my\_folder" that includes all files with a ".txt" extension and has a maximum size of 10MB. Then, create a new directory called "my\_backup" and move the compressed archive into it. Use the certain command to extract the contents of the compressed archive into a new directory called "my\_new\_folder". Finally, use the certain command to compress any random file within "my\_new\_folder" called "important\_file.txt" and save it with the extension ".gz". Check the size of a file.
3. Choose any directory on your system and create a copy of it and create a zip archive of it using the specific option to recursively include all subdirectories. Then use the certain command to extract the contents of the archive to a new directory. Finally, compare the files in the original directory and the extracted directory to ensure that the contents are the same. Delete copied directory.
4. Choose a directory on your system containing multiple text files and use the certain command to search for a specific pattern of text within all the files in the directory. (ex you name, surname, something that will help to identify you, or files with the same extension .txt, .gov , etc). Use the certain option to search recursively through all subdirectories and an another option to display only the names of the files that contain the pattern. Use this , explain the meaning of every symbol.
5. Write down the names of your classmates in the file. Sort the names and save the new list to a new file. Then create another list of surnames, sort it and add it to the same file with names. Check. Show an example of using "2>" and "2>>" commands. Check. Also find the name of a command that will delete all your files from linux, don’t use it, just write as a comment to your task. Show the using of find, wc, cut, sort commands