In this task I did my-cat, my-grep and my-zip and my-unzip Unix utilities.

Every file has basic headers

usage is normal and as instructed to all utilities for example my-cat: gcc -o my-cat my-cat.c -Wall -Werror

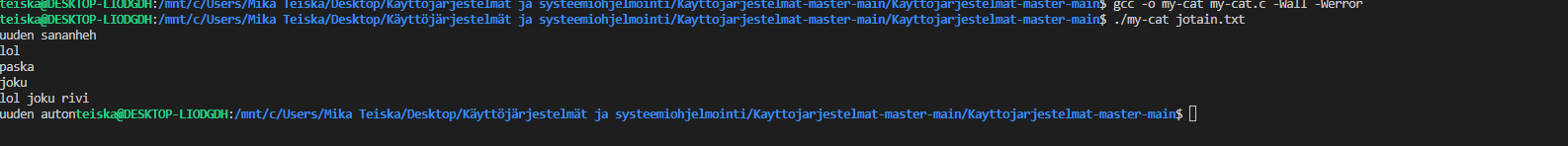
then run program with wanted args like: ./my-cat main.c

My-cat:

- First we take args from commandline and make variables for program

- Opening the given file in read mode also doing check if file opening failed and resulted into a error

- Then we read lines to a buffer and print the lines out to the user



my-grep:

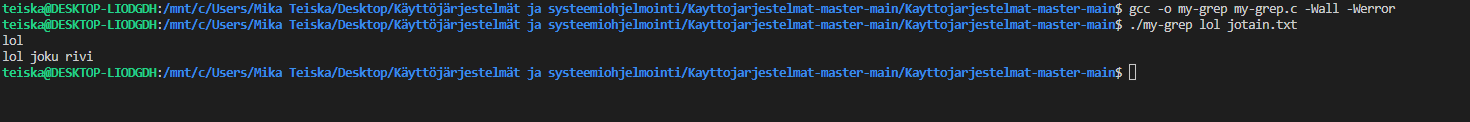
- First we do basic checking for args if they are given or not

- If search term is not given print whole file contents

-Read line from stdin and check if line includes search term

- After this we do normal checking if string includes wanted substring with strstr and if this is true then print the file with wanted term

- If multiple files are given loop through args and do normal grepping as many times as there are files given



My-zip/my-unzip:

Zip:

- If no file is given for zipping print instructions on program usage

- Run program as many times as there are given files.

- Open a file to read and then get characters of a file

- then if character that is now read is same as earlier character make count go up by one

- then if character is not the same anymore, write 4 - byte integer and character to the file

- Also write after loop the last values of the variables to the file since otherwise the last values would not be written

Unzip:

- Check if file to unzip given

- Open file to read and do normal error checking for file opening

- Read characters and print as many characters as the count says

- If zipped file consists of multiple files the information of that there were multiple files is lost and

