Department of Computer Science Forman Christian College (A Chartered University) Lahore
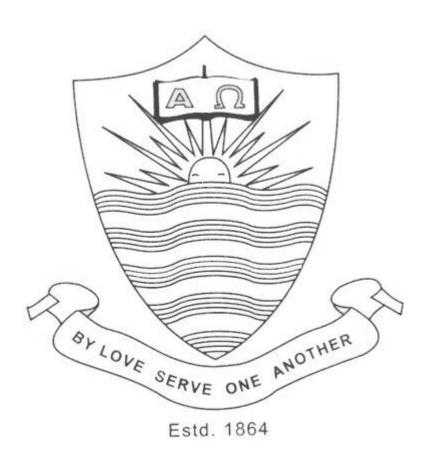

Estd. 1864

SYSTEM PROGRAMMING
COMP 440

Assignment 02
Simulating MORE Command

Name:

Roll Number:

Date:

Submission Date: Wednesday, April 15, 2015 (In Class)

We have discussed more utility in detail in the class. We also simulated a basic version of more command as out lab. In this assignment you will use the code that you wrote in lab to simulate more command, and enhance it so that it should overcome the limitations of the version we wrote in our lab.

You had noticed that our version of more had the following drawbacks:

- We have to provide the number of rows of our terminal screen as hard coded value.

- The message --More—displayed at the end of each screen scrolled up as we keep on pressing the command keys.

- Percentage of the file shown was also not implemented in our version.

Write your version of more command that should overcome the above said limitations. You can get information about size of terminal window by searching man pages. For your convenience, type

    $ man –k ioctl

This will guide you to the man pages of tty_ioctl, where you can find some useful information to get size of terminal window during run time.

You can keep the message "more?" printed in reverse video stationary at its position by using different combinations of Control Sequences. We had already discussed many in class.

Finally displaying percentage of file displayed is all about logic. I am leaving this to you. You can use any appropriate logic to get this done.

Submission Format

This programming assignment requires you to observe fully the honesty code of FCCU. You can discuss the problem with your fellow students. Any case of copying and / or plagiarism will be considered as a serious offence and will be dealt with as per University policy.

You should bring a properly formatted hard copy of your code on the day of submission. Please make sure to attach this assignment hand out with hard copy of your code. Make sure that your code should be properly commented so as to reflect your understanding about the problem domain.

There will be a viva at the end of the semester where you will explain your code. Please also note that you will submit the soft copy of your code to the instructor when you appear for the viva.

The date and time specified above should be considered as Hard Dead Line. Any submission that does not comply with it will be considered late and grade will be capped by 50%.