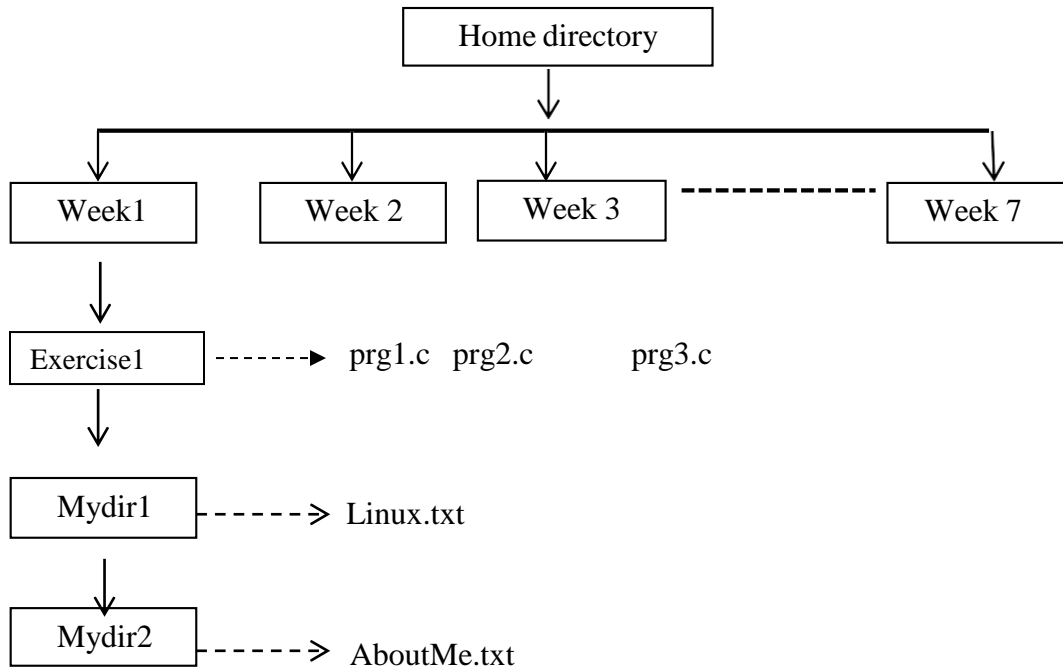


WEEK 1

☞ Exercise1: Linux & vi editor

We will be using the following file structure during your OS lab sessions.

Home directory example: /OSmca001/



1. Create a sub-folder under your Week1 folder called **Exercise1**.

2. Create a subfolder under Exercise1 called **Mydir1**.
3. Create a subfolder under Mydir1 called **Mydir2**.
4. Create a file called **AboutMe.txt** using vi editor. Type out 10 lines on the topic “About Me” in this text file. (You must be in Mydir2 sub directory)
5. Now go back to subdirectory **Mydir1**.
6. Create a new file called **Linux.txt** with the following information: (You must be in sub-directory Mydir1). [Use copy/paste vi commands wherever applicable]

Looking into the Linux kernel

The core of the Linux system is the *kernel*. The kernel controls all of the hardware and software on the computer system, allocating hardware when necessary, and executing software when required.

If you’ve been following the Linux world at all, no doubt you’ve heard the name Linus Torvalds. Linus is the person responsible for creating the first Linux kernel software while he was a student at the University of Helsinki. He intended it to be a copy of the Unix system, at the time a popular operating system used at many universities.

After developing the Linux kernel, Linus released it to the Internet community and solicited suggestions for improving it. This simple process started a revolution in the world of computer operating systems.

Soon Linus was receiving suggestions from students as well as professional programmers from around the world.

7. For the above exercise (Ex. 6) perform the following editor operations:
 - a. Remove blank lines wherever the *** is found

- b. Replace all occurrences of the word “Linux” with “Ubuntu”
- c. Save and return to command line prompt
- d. Use command to view “**Linux.txt**” at the command prompt without using vi
- e. Rename “**Linux.txt**” with the name “**Ubuntu.txt**”
- f. Make a copy of the same text file in the name “**Linux1.txt**” at commandprompt

8. Now return back to the folder “Exercise1” under Week1. All the remaining exercises must be in Exercise1 sub directory.

9. Create a C source file called **prg1.c** to print the following using a single output statement:

Hello everyone
Hello
World
Hello world

10. Create a C source file called **prg2.c** to display today’s date in the following format using multiple output statements:

- a. 4th August 2015
- b. 2015-08-04
- c. 04/08/2015
- d. 04-08-2015

11. Create a C source file called **prg3.c** to display the following using a single output statement:
“Today is: The Fourth of August Two Thousand Fifteen”

12. Create a C source file called **prg4.c** to display following using multiple output statements:

Name: [type your own name here]

Branch: MCA

Date of Joining: 03-08-2015

Subjects: Maths, OOPD, ADBMS, SEPM, ADAA

Department: Computer Applications

College: Manipal Institute of Technology, Manipal

University: Manipal University

13. Modify **prg4.c** to display information of two students.