**Assignment - Shell Programming**

**A. Learning Outcome**

Upon successful completion of this assignment, you will be familiar with:

∙ Bash Shell Programming

∙ How shell programs are executed

∙ The use of shell variables

∙ Some basic coding principles

**B. Assignment Description**

Write a Bash shell script that displays the following menu and prompts for one-character input to invoke a menu option, as shown.

a. Display the present working directory

b. List names of the files in a given directory

c. Display today's date and time

d. Display whether a file is a ordinary file or a directory

e. Execute a command line

f. Exit the program

Your program should look as follows:

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Please choose from the following options; type the option number and hit the <Enter> key.**

**a or A To display the current directory**

**b or B To list names of the files in a given directory**

**c or C To display today's date and time**

**d or D To display whether a file is a simple file or directory e or E To execute a command line.**

**q or Q To exit the program.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Enter your choice and hit <Enter>: a**

**/home/nghia/Test/Shell**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: b**

**Please enter the directory path: /sys**

**total 4**

**drwxr-xr-x 12 root root 0 2009-07-18 13:18 .**

**drwxr-xr-x 21 root root 4096 2009-06-26 16:07 ..**

**drwxr-xr-x 2 root root 0 2009-07-18 13:18 block**

**drwxr-xr-x 21 root root 0 2009-07-18 13:18 bus**

**drwxr-xr-x 46 root root 0 2009-07-18 13:18 class**

**drwxr-xr-x 4 root root 0 2009-07-18 21:13 dev**

**drwxr-xr-x 10 root root 0 2009-07-18 13:18 devices**

**drwxr-xr-x 4 root root 0 2009-07-18 13:18 firmware**

**drwxr-xr-x 4 root root 0 2009-07-18 13:18 fs**

**drwxr-xr-x 6 root root 0 2009-07-18 13:18 kernel**

**drwxr-xr-x 97 root root 0 2009-07-18 13:18 module**

**drwxr-xr-x 2 root root 0 2009-07-18 13:18 power**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: b**

**Please enter the directory path: adirectory**

**adirectory is not a directory.**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: c**

**Sat Jul 18 21:15:17 ICT 2009**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: d**

**Please enter file name: afile**

**afile does not exist, or it is neither an ordinary file not a directory.**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: d**

**Please enter file name: case\_demo**

**case\_demo is an ordinary file.**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: d**

**Please enter file name: dir1**

**dir1 is a directory.**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: e**

**Please enter a command to be executed: df -h**

**Filesystem Size Used Avail Use% Mounted on**

**/dev/sda1 7.5G 2.8G 4.4G 39% /**

**tmpfs 249M 0 249M 0% /lib/init/rw**

**varrun 249M 112K 249M 1% /var/run**

**varlock 249M 0 249M 0% /var/lock**

**udev 249M 140K 249M 1% /dev**

**tmpfs 249M 76K 249M 1% /dev/shm**

**lrm 249M 2.2M 247M 1% /lib/modules/2.6.28-13- generic/volatile**

**Hit <Enter> to continue.**

**Enter your choice and hit <Enter>: q**

**Bye now!**

**C. Submission Requirements**

At the beginning of your program, include comments with the following information formatted neatly, and reflecting accurate information about you.

#Assignment: Shell Programming

#Class ID: YourClassID

#Group number: <Your group #>

#Student Names: <Listing all members in your group>

#Source File: <Class name>\_<Your group number>\_ShellProgramming.sh