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:

Hit <Enter> to continue.

```
************************
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
             To execute a command line. To exit the program.
e or E
 **************************
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 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.
Hit <Enter> to continue.
Enter your choice and hit <Enter>: b
Please enter the directory path: adirectory
adirectory is not a directory.
```

```
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>:
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>:
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>:
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
                            0 249M 0% /var/lock
varlock
                      249M
                      249M 140K 249M 1% /dev
249M 76K 249M 1% /dev/shm
249M 2.2M 247M 1% /lib/modules/2.6.28-13-
udev
tmpfs
1rm
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
#Student ID: YourStudentID
#Student Name: YourName

#Source File: YourName_YourStudentID_ShellProgramming.sh