CST8102-15W Lab10	Name:	Section#:

Linux Shell Scripting III

Due date

End of Week13 lab class

Evaluation

3% of final grade.

Submission

• Show execution of your script to your professor, or hand in or email (in email subject line: CST8102-15W lab10 submission) completed lab before due date.

Materials

- Student laptop computer
- Ubuntu 14.04.1 installed in VMWare Workstation

Procedure

You will create a script file to perform basic calculations.

- 1. Create a script file called *mycalc* using vim.
- 2. The first line of your script file should force the use of the **bash** shell.
- 3. On the top of the script file, there should be a section of comments that contains the Assignment number, your name, student number, lab section number, name of the script file, the date, and a description of what the script file does.
- 4. Your script file should be **properly commented**
- 5. The script file should perform the following operations: + and -

- 6. The script should have two **functions**:
 - a. add and subtract
 - b. Each of the functions should accept two integer numbers as parameters
 - c. The functions should perform the desired calculation.
- 7. The script file should support two ways of functioning, no parameters or three parameters.
 - a. If three parameters are provided, the second parameter must be + or -:
 - The First and Third parameters must be numbers.
 - The user can enter integer numbers only.
 - The result should be displayed on the screen and the program exit.
 - The example below shows how plus would work. Do similar for -
 - Example:

- b. If no parameters are provided the script should do the following:
 - A menu should be provided allowing the user to exit or Do a calculation. Allow upper or lower case. See Menu 1 below.
 - If C is selected the screen should clear and the user should be prompted to enter a number. See **Menu 2** below.
 - If a number is entered the screen should clear and a new menu should be displayed. See **Menu 3** below.
 - If + or is entered the screen should clear and the user should be prompted to enter a number. See **Menu 2** below.
 - If a number was entered the result should be shown on the screen
 - After three seconds the screen should clear and Menu 1 should be displayed again.
- c. Error checking should be done to make sure of the following:
 - Either no parameters or three parameters are entered.
 - If three parameters are entered then the second parameter must be one of the following + -
 - Any invalid choices should be flagged in the menu system
 - You don't need to check if the input numbers are integers

Menu 1Menu 2Menu3C) CalculationPlease enter an integer number or X to exit:+) AddX) Exit-) SubtractX) Exit