Comp 7006 - Lab #4

Shell Scripting on Linux

Due Date: October 21, 2019, 1700 hrs.
You may work in groups of **two**.

Objective: To design and implement a shell script that will install and configure a set of user-specified Linux packages.

Assignment:

Design and develop a shell program that will provide a user with the ability to specify a set of packages to be installed and then configured as part of post-configuration script. The application can be designed as a single script or as two separate scripts (i.e., an install script, and a post-install configuration script)

Constraints:

- Your script must prompt the user for, and allow the user to specify the following parameters:
    - Name of the package(s) to be installed.
    - Configuration details of each package to be implemented post installation.
    - As a suggestion you can generate a configuration file using the user-specified parameters, which can then be read by the install and configuration script(s).
- Note that it is a requirement that the script handle all aspects of the installation including creating new directories, changing file permissions, etc. In other words this will be a fully-automated application that will not require a user to carry out any post installation tasks.
- Note that you are required to provide extensive documentation in the form of log entries and screen shots as part of your test and verification component.
- As a minimum test for your script, carry out the installation and configuration of the following applications:
    - Apache as specified in lab #2
    - NFS and Samba as specified in lab #3
- A demo of the application is required. This will be done in SE12-323 on the day the assignment is due.

To Be Submitted:

- Hand in complete and well-documented design work and listings of your program.
- Make sure you include all your test and verification details (documentation) with your submission.
- Submit a detailed report outlining all the steps you took in configuring and testing your setup. Also submit copies of all the configuration files that you have modified.
- Submit a complete, zipped package that includes your report, configuration files and any supporting data and references in the sharein directory for this course under "**Lab #4-PTS**".

Evaluation:

Design and documentation:	5 / 5
Test & Verification:	15 / 15
Script & Functionality:	40 / 40
Total:	60 / 60