# Assignment #9: Linux Shell Scripting 2 [3%]

This assignment relates to the following Course Learning Requirements:

CLR 3 – Work with the GUI and command-line interface

CLR 4 – Create and test shell scripts in Linux and Windows operating systems

Objective of this Assignment:

The objective of this assignment is to write a BASH script to create a User and Group management menu system.

# Pre-Assignment Instructions:

1. Launch the VMWare Workstation and run the Ubuntu Virtual Machine instance from last week.
2. Launch the Terminal Window.

**Assignment Tasks:**

You will create a script file for the purpose of user and group management in Linux.

1. You will create a script file called **user\_manager**using **vim**.
2. The first line of each 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. It should contain a **menu** that gives the user a choice of five items labeled **A - F** and **Q**, and a prompt asking for what the user’s choice is.

**A) Create a user account**

**B) Delete a user account**

**C) Change supplementary group for a user account**

**D) Change initial group for a user account**

**E) Change default login shell for a user account**

**F) Change account expiration date for a user account**

**Q) Quit**

1. This script file must loop using a **while loop**. When you run it, you can choose one menu item. A message should be displayed if an invalid option is chosen.
2. The menu choice should be decoded using an **if-elif-else** structure.
3. The **if** structure should accept upper- or lower-case letters. Use **|| operator** to allow upper- or lower-case characters.
4. If **A** or **a** is chosen, the script should prompt you to enter the following information:
   * + - Username
       - User’s home directory
       - Default login shell

Create the user account based on the information given above

1. If **B** or **b** is chosen, it should prompt you for username of the account to be deleted, and delete the user account as well as the user’s home directory
2. If **C** or **c** is chosen, it should prompt you for username and group name that is added as a supplementary group for the user account
3. If **D** or **d** is chosen, it should prompt you for username and group name that is used as the initial group for the user account, and change the initial group for the user account.
4. If **E** or **e** is chosen, it should prompt you for username and shell name, and change the default shell for the user account.
5. If **F** or **f** is chosen, it should prompt you for username and expiration date, and change the expiration date for the user account.
6. If **Q** or **q** is chosen, the script should end.
7. It should sleep for **3** seconds after each menu item is selected before the loop causes the menu to be redisplayed

Below is a sample of a while loop:

choice=n #initialize to dummy value

while [ $choice != "Q" ] &&[ $choice != "q" ]

do

clear

echo -e "Choice: \c"

read choice

echo "You Entered $choice."

sleep 3

done

Upload your script to Brightspace.