**CST8102 Lab9 Name: Section#:**

**Linux Shell Scripting III**

# Submission

Demonstrate your script execution on your laptop to the professor during your scheduled lab periods and submit your completed lab on Brightspace before the due date.

# Procedure

You will create a script file for the purpose of hard drive partitioning.

1. Create a script file called ***sdbTool***.
2. The first line of the script should force the use of the **bash** shell.
3. Run the following lines of commands in your terminal window to install the necessary files for your script to work. These commands will download 2 scripts I’ve created to delete a partition and create a partition as there is no command line way of doing either without the use of an interactive prompt.

sudo wget -qNP /bin <https://hassan.app/CST8102/partition_create>;

sudo wget -qNP /bin <https://hassan.app/CST8102/partition_delete>;

sudo chmod a+x /bin/partition\_create;

sudo chmod a+x /bin/partition\_delete;

1. The goal of the script file is to create, format, mount, unmount, delete, and view partitions all within a menu.
2. It is a **requirement** that the script uses functions for every menu item.
3. It is a **requirement** that the script has basic error checking using exit status for each function.
4. It is encouraged but not required that you use switch/case statements rather than if/else statements.
5. The following are the commands that will be used to complete each menu option:
   * Creating a partition:
     + **sudo partition\_create /dev/sdb $1 $2 &> /dev/null**
     + $1 should be the partition ID and $2 should be the size
   * Format a partition:
     + **sudo mkfs -t ext4 /dev/sdb$1 &> /dev/null**
     + $1 should be the partition ID
   * Mount a partition:
     + **sudo mount -t ext4 /dev/sdb$1 $2 &> /dev/null**
     + $1 should be the partition ID and $2 should be the mount point
   * Unmount a partition:
     + **sudo umount $1 &> /dev/null**
     + $1 should be the partition ID or mount point
   * Delete a partition:
     + **sudo partition\_delete /dev/sdb $1 &> /dev/null**
     + $1 should be the partition ID
6. Your menu should look like the following and should loop until the quit/exit option is chosen:

