CIS241 Fall 2018 – Lab 5: Linux Shell Script
Maximum Points: 100 (2% of the final grade)
Due at 10PM on Wednesday, November 14, 2018

In this lab, you need to write a Linux Shell Script to finish the following tasks. Please write the codes of all the required tasks (Task 1, 2 and 3) into one single script file and name it as "***test.sh***".

Task 1: The "***test.sh***" shell script supports only one command line argument, "-c", "-l", or "--help", e.g., "./test.sh -c", "./test.sh -l", or "./test.sh --help".

If no command line argument is provided, (i.e., "./test.sh" is typed), it displays "Must provide an argument" and exits.
If the argument is "-c", (i.e., "./test.sh -c"), it displays "The number of files" and "How many bytes".
If the argument is "-l", (i.e., "./test.sh -l"), it displays "List all the files".
If the argument is "--help", (i.e., "./test --help"), it displays "How to run this script".

Task 2: Create a directory "*backup*" in your home directory in EOS machine. (If "*backup*" does not exist, then create that. Otherwise, do nothing.)

Task 3: Count the number of files and directories in the current path, and display that. Also, display the amount of bytes these files and directories consume.

Task 4: (Optional) For this optional task, write a Linux Shell Script "***sum.sh***" to calculate the sum of command-line arguments, and display that. We can assume all the command line arguments are integers. The number of command-line arguments is unknown. (You do not need to submit the code for this task.)

After you finish all the required tasks (Task 1, 2 and 3), please show your program to the instructor. If you cannot finish that in the lab time, please submit the Linux Shell Script "test.sh" to BlackBoard.