

Assignment #2 (80 Points) – COSC 4327 – Dr. Leonard Brown

Due: **October 6, 2023**

Problem Description

1. (40 points) Write a shell script for bash that will describe the current directory in four lines. The first line will give the absolute path of the current directory. The second line will display the number of files in the directory. The third line will show the name and size of the largest hidden file in the directory. The final line will show a comma separated list of all files in the directory with a .c extension.

All of the output lines should be preceded by an appropriate message. Thus, the output should have the following format:

```
Current Directory:  /home/alice
Number of Files: 11
Largest Hidden File:  .hidden2  800
C files:  assign1.c, hello.c, program.c
```

2. (40 points) Write a shell script for bash that will create a new file that contains user information. The file should contain information about the last three users added to the system with each line describing a single user. This information is contained in the last three lines of both the /etc/shadow and the /etc/passwd files. Specifically, you should produce a file where each line for a user contains the following fields: user name, full name, encrypted password, and home directory. The fields should be separated using commas.

Submission

Each shell script should be submitted in its own text file (not a MS Word file, not a pdf, etc.). Thus, you should submit two text files (problem1 and problem2). Submit your assignment through Canvas. If your assignment contains multiple files, zip them into a single folder before submitting.

Notes

Points can be deducted from your assignment based on the quality of its presentation. Handwritten assignments will not be accepted.