

Computer Science 3600

Spring 2012

Assignment 1

Due (automatic collected from your `cs3600` sub directory) at 10:00pm Thursday, January 19.

The purpose of this assignment is to help you become familiar with BGunix and with several of the Unix operating System Commands and to edit and compile a COBOL program. This programming assignment is an enhancement to the program `cs3600ex01sp11.cob`. This program is written to the 74 COBOL standard.

You are expected, as soon as possible, to become familiar with:

- Many of the most commonly used Unix operating system commands (see *Quick Reference* available at <http://www.bgsu.edu/departments/compsci/docs/bgunix.html>).
- Editing COBOL source programs using the winSCP editor and Notepad++.

Once you have experimented with the various commands on the *BGunix Quick Reference* page, perform the following exercise:

1. Copy the following files from the class library to your `cs3600` sub-directory as follows:

```
cp cs3600ex01sp12.cob ~/cs3600/cs3600as01sp12.cob
cp cs3600ex01sp12.dat ~/cs3600/cs3600ex01sp12.da1
cp cs3600as01sp12.dat ~/cs3600/cs3600as01sp12.da1
```
2. Using winSCP edit `cs3600as01sp12.cob` changing all references to `cs3600ex01sp12` to `cs3600as01sp12` and changing entries in the Identification Division to personalize.
3. Amend the total logic to include totaling of the balance column and add printing of the total on the total line along with the record count.
4. After testing and debugging you program, start a photo session in your login (home) directory by using the following command: `photo assign1.photo`
5. Execute the following `cd cs3600` command.
6. Execute the following `ls -l` command.
7. Execute the command `cat cs3600as01sp12.cob`
8. Compile and link the `cs3600as01sp12.cob` source code file using the `cobol` command.
9. Execute the `ls` command.
10. Execute the `a.out` machine code file using the `a.out` command.
11. Execute the `ls` command.
12. Terminate your photo session using the following command:
`<control>d` (press & hold the Ctrl key while pressing the d key) This will automatically put you back to your login (home) directory.
13. Execute the `ls` command.
14. Change directories (change the "path") to your `cs3600` subdirectory.
15. Display the current directory "path" name.
16. Execute the `ls` command.

17. Copy your `assign1.photo` file from your login (home) directory to your `cs3600` subdirectory using the following command:

```
cp ~/assign1.photo ~/cs3600/assign1.photo
```

40. Execute the `ls -l` command.

41. Execute the `chmod 644 assign1.photo` command.

42. Execute the `ls -l` command.