Text

Description automatically generatedCSC 235

Introduction to Linux & Linux Administration

Fall 2025

**Assignment #7: Bash Scripts**

**Assigned: Tuesday, October 14, 2025**

**Due: Friday, October 17, 2025 (NLT 23:59)**

**Instructions:**

1. Insert your answers into this document (*text and screenshots*)
2. Highlight your answers in green (*text only*)
3. When finished, rename the document (*please use the naming convention below*)
4. Upload the renamed document to the Moodle assignment

**A7 - Last Name** (e.g., **A7 - Nonnweiler**)

**Customer Requirements:**

* Write a bash script that does the following:
* Display the current user’s a.) Username, b.) User ID, and c.) Home Directory
* Backup a given file to a given directory
* Perform a simple calculate on two user-supplied integers and their choice of operation (i.e., +, -, \*, and /)
* Read a string from the user, count the number of words, and then save the result to a file as well as displaying to the screen

#!/bin/bash

# Assignment 7 - Bash Script

echo "--------------------------------------------"

echo "1) Displaying current user information"

echo "--------------------------------------------"

echo "Username: $USER"

echo "User ID (UID): $UID"

echo "Home Directory: $HOME"

echo ""

echo "--------------------------------------------"

echo "2) File Backup"

echo "--------------------------------------------"

read -p "Enter the path of the file to back up: " src\_file

read -p "Enter the destination directory: " dest\_dir

if [ -f "$src\_file" ]; then

if [ -d "$dest\_dir" ]; then

cp "$src\_file" "$dest\_dir"

echo "Backup completed: $src\_file → $dest\_dir"

else

echo "Error: Destination directory does not exist."

fi

else

echo "Error: File does not exist."

fi

echo ""

echo "--------------------------------------------"

echo "3) Simple Calculator"

echo "--------------------------------------------"

read -p "Enter first integer: " num1

read -p "Enter operation (+, -, \*, /): " op

read -p "Enter second integer: " num2

case $op in

+) result=$((num1 + num2));;

-) result=$((num1 - num2));;

\\*) result=$((num1 \* num2));;

/)

if [ "$num2" -ne 0 ]; then

result=$((num1 / num2))

else

echo "Error: Division by zero is not allowed."

exit 1

fi

;;

\*) echo "Invalid operator"; exit 1;;

esac

echo "Result: $num1 $op $num2 = $result"

echo ""

echo "--------------------------------------------"

echo "4) Word Counter"

echo "--------------------------------------------"

read -p "Enter a sentence: " user\_input

word\_count=$(echo "$user\_input" | wc -w)

output\_file="wordcount.txt"

echo "You entered: \"$user\_input\""

echo "Word count: $word\_count"

echo "Saving result to $output\_file..."

echo "Input: $user\_input" > "$output\_file"

echo "Word count: $word\_count" >> "$output\_file"

echo "Done!"

echo "--------------------------------------------"

A screenshot of a computer

AI-generated content may be incorrect.