# **Assignment: Bash Shell Basics**

### **Task 1: File and Directory Manipulation**

- 1. Create a directory called "my\_directory".
- 2. Navigate into the "my directory".
- 3. Create an empty file called "my file.txt".
- 4. List all the files and directories in the current directory.
- 5. Rename "my file.txt" to "new file.txt".
- 6. Display the content of "new file.txt" using a pager tool of your choice.
- 7. Append the text "Hello, World!" to "new file.txt".
- 8. Create a new directory called "backup" within "my\_directory".
- 9. Move "new file.txt" to the "backup" directory.
- 10. Verify that "new file.txt" is now located in the "backup" directory.
- 11. Delete the "backup" directory and all its contents.

### Task 2: Permissions and Scripting

- Create a new file called "my script.sh".
- Edit "my\_script.sh" using a text editor of your choice and add the following lines:

#### bash

#!/bin/bash echo "Welcome to my script!" echo "Today's date is \$(date)." Save and exit the file.

- Make "my script.sh" executable.
- Run "my\_script.sh" and verify that the output matches the expected result.

## **Task 3: Command Execution and Pipelines**

- List all the processes running on your system using the "ps" command.
- Use the "grep" command to filter the processes list and display only the processes with "bash" in their name.
- Use the "wc" command to count the number of lines in the filtered output.

### Submission:

Provide a document or text file containing the commands used to complete the tasks above, along with any relevant output or screenshots. Include your explanations or observations where necessary.