# Assignment 4 – CLI

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In this assignment you will work with the command line interface to manipulate your computers file system. Use the commands that are appropriate for your Operating System.

Objective – Understand and utilize the command line interface.

Reference – Weekly Resources, Reading and Videos, and Web Article

**Part I Basic CLI Commands (100 Points)**

1. What is a **terminal window**? A text-based interface used to interact with an operating system or software using commands
2. What does **cwd** stand for? Current Working Directory
3. What does **cd** stand for? Change Directory
4. What does the word **directory** mean? A directory is a file system cataloging structure that contains references to other computer files and possibly other directories
5. What is the **command prompt**? Also known as CMD, is a command-line interpreter application available in most Windows operating systems
6. Given the following path, what does each item mean?

Answer the questions that are applicable to your computers Operating System.

**Windows:**



1. c:\ The Dive letter, this case the root of the drive with letter c
2. temp A Directory that can be found in the root of the c drive
3. games A Directory that can be found in the root of the temp Directory found on the c drive

**macOS/Linux:**



1. etc \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. httpd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. conf \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the command to clear the terminal window? cls
5. What is the command to show your current working directory? cd
6. Assume your current working directory is **c:\Users\mozart** (Windows) or **/home/mozart** (macOS/Linux). What is the command to move to a folder named **games**? cd ./games
7. What is the command to move to the **parent** directory? cd ../
8. What is the command to show all of the files and folders in a directory? dir
9. What is the command to show all of the files and folders in a directory using “long-list” format?

dir /s

1. What is the command to create a new directory named **homework**? mkdir “homework”
2. What is the command to delete a file named **assignment1**? del “assignment1.txt”
3. What is the command to delete a directory named **budgets**? rmdir “budgets”

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1. What is the command to delete a directory named budgets, including all of its files and sub-directories? rmdir /s /q “budgets”
2. Assume your current working directory is **c:\Users\mozart** (Windows) or **/home/mozart** (macOS/Linux). What are the commands to move to a directory named **games** and to list all of the files in the game’s directory?
3. cd ./games/
4. dir /s
5. What is the command to move a file named **assignment1** from your current working directory to a directory named **homework**? move assignment1.txt ./homework
6. What is the command to display the contents of a text file named **settings.txt**? type settings.txt
7. What is the command to save the output of the dir (Windows) or ls (macOS/Linux) to a text file named output.txt? dir > output.txt

**Part II File Manipulation (100 Points)**

1. Write the commands to build the directory structure shown below. Take screenshots of the commands and to prove your work was successful.

**ROOT**

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**Budget Classes Games temp Work**

**Yearly Monthly Web200 Web201 Sports Action**

**Week1 Week2 Week3 Week4**

**A screenshot of a computer

Description automatically generated**

1. Add three text files to the temp directory.
2. composers.txt: list five of your favorite composers.
3. books.txt: list five of your favorite books.
4. foods.txt: list five of your favorite foods.

Write the command to display the comments of the composers.txt file, take a screenshot of the results and paste it here: A screenshot of a computer

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Write the command to display the contents of the books.txt file, take a screenshot of the results, and paste it here: A computer screen shot of a computer program

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Write the command to display the contents of the foods.txt file, take a screenshot of the results, and paste it here: A screenshot of a computer

Description automatically generated

1. Move the composers.txt, books.txt, and foods.txt files to the Week4 directory in Web201. Take a screenshot of the results (prove the file was actually moved) and paste it here:A computer screen shot of a black screen

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2. Delete the temp directory. Take a screenshot of the results (prove the directory was actually deleted) and paste it here: A computer screen shot of a black screen

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3. List all of the files in the Week4 directory using “long-list” format. Take a screenshot of the results (prove the command worked) and paste it here: A screenshot of a computer

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4. Set Web201 as your current working directory and delete the Week4 directory, including all of its files. Next, run the dir or ls command and write the output to a text file named output.txt. Take screenshots of the commands you used and their results and paste it here:

A screenshot of a computer program

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Description automatically generated

1. Add a new directory to Web201 named Discussions. Take a screenshot of the results (prove the directory was created) and paste it here: A screenshot of a computer

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2. Add four new directories to the Discussions directory in Web201. Name them Week1, Week2, Week3, and Week4. Take screenshots of the commands use used and their results and paste it here:A screenshot of a computer program

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3. Rename the Work directory to Personal. Take a screenshot of the results (prove the command worked) and paste it here: A screenshot of a computer program

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4. Execute one file or directory manipulation command with at least one argument flag of your choosing. Take a screenshot of the results (prove the command worked) and paste it here: A screenshot of a computer

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