**Assignment 1**

**MTMC-509 Programming Lab-I**

**Working with File and Directory Management**

1. **Creating and Navigating Directories**
   * Create a new directory named ProjectFiles in your home directory.
   * Change your working directory to ProjectFiles.
   * Inside ProjectFiles, create the following subdirectories:
     + Documents
     + Images
     + Scripts
2. **Working with Files**
   * In the Documents directory, create three empty text files: report.txt, notes.txt, and summary.txt.
   * Verify that the files were created by listing the contents of the Documents directory using the appropriate command.
   * Rename report.txt to final\_report.txt.
3. **Copying and Moving Files**
   * Copy final\_report.txt from the Documents directory to the Scripts directory.
   * Move summary.txt to the Scripts directory, but keep the original filename.
4. **Editing File Contents**
   * In the Documents directory, create a new file named tasks.txt.
   * Use the echo command to add the following text to tasks.txt:  
     "Complete shell scripting assignment by tomorrow."
   * Display the contents of tasks.txt in the terminal.
5. **File and Directory Listing**
   * List all the files in ProjectFiles and its subdirectories with detailed information (including hidden files if any).
   * Ensure that the list shows the permissions, owner, size, and modification dates for each file.
6. **Removing Files and Directories**
   * Delete the notes.txt file from the Documents directory.
   * Delete the Images directory from ProjectFiles.
   * Verify that both the file and directory have been removed by listing the contents of ProjectFiles and its subdirectories again.
7. **Return to the Home Directory**
   * Return to your home directory and confirm the current directory by displaying its path.