



LAB # 02 – IN-LAB TASK

CLASS TASK

Submission Instructions:

1. Perform all the assigned tasks carefully.
2. Prepare your solutions in a Microsoft Word document, clearly writing the solution of each problem.
3. Attach relevant screenshots for every task as proof of execution.
4. Ensure that your document is properly formatted (clear headings, proper spacing, and alignment).
5. After completing the Word document, convert it into a PDF file.
6. Upload the PDF file on Google Classroom (GCR) within the given deadline.
 - **No submission will be accepted after the deadline.**
7. Before uploading, rename your PDF file using the following format:

OS Lab 02 (CT) – Your Name – Your Roll Number

Example:

OS Lab 02 (CT) – Abdullah Shaikh – 25K-7826

Task 1: User Creation and Workspace Setup

Create a user named labuser on the system. After creating the user, prepare a working directory named workspace inside the home directory of labuser. Inside this directory, create three files named info.txt, data.txt, and summary.txt. Ensure all files are owned by labuser and are located only inside the workspace directory.

Task 2: File Management Operations

Within the workspace directory of the user labuser, copy the file info.txt and save the copy with the name info_backup.txt. Rename the file data.txt to records.txt. Remove the file named summary.txt from the directory. After completing these operations, display the contents of the directory showing all remaining files.

Task 3: Directory Organization and File Movement

Create a new directory named archive inside the workspace directory. Move the file info_backup.txt into the archive directory. Ensure that the original file info.txt remains in the workspace directory. Verify that files are placed in their correct locations.

Task 4: File Permissions Management

Set file permissions for all files inside the workspace directory so that the owner labuser has read and write access, the group has read-only access, and all other users have no access. Apply the same permission policy to the file info_backup.txt located in the archive directory.

Task 5: Permission Verification and Explanation

Display the permission details of the files info.txt, records.txt, and info_backup.txt. Write a brief explanation describing what the permission settings mean for the owner, group, and other users.

THE END!