

**SET-224 /CET-225**

**Operating Systems LAB # 02**

**LAB Title**

ManagingfilesandDirectoriesinLinux

**Assessment of CLO: 04, PLO: 05**

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| --- | --- | --- | --- |
| Student Name: |  | | |
| Roll No. |  | | |
| Semester |  | Session |  |

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| **S.**  **No.** | **Perf. Level**  **Criteria** | **Excellent (2.5)** | **Good (2)** | **Satisfactory (1.5)** | **Needs Improvement (0 ~ 1)** | **Marks Obtained** |
| **1** | Project Execution & Implementation | Fully functional, optimized, and well-structured. | Minor errors, mostly functional. | Some errors, requires guidance. | Major errors, non-functional, or not  Performed. |  |
| **2** | Results & Debugging Or  Troubleshooting | Accurate results with effective debugging  Or Troubleshooting. | Mostly correct, some debugging Or Troubleshooting needed. | Partial results, minimal debugging  Or Troubleshooting. | Incorrect results, no debugging Or Troubleshooting, or not attempted. |  |
| **3** | Problem- Solving & Adaptability (VIVA) | Creative approach, efficiently solves challenges. | Adapts well, minor struggles. | Some adaptability, needs guidance. | Lacks innovation or no innovation, unable to solve  problems. |  |
| **4** | Report Quality & Documentation | Clear, structured, with detailed visuals. | Mostly clear, minor gaps. | Some clarity issues, missing details. | Poorly structured, lacks  clarity, or not submitted. |  |
| **Total Marks Obtained Out of 10** | | | | | |  |

**Experiment evaluated by**

|  |  |  |  |
| --- | --- | --- | --- |
| Instructor’s Name | Engr.Bushra Aziz | | |
| Date |  | Signature |  |

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**Objective:** To be familiar with management of files and directories in Linux

EXERCISE

1. Open the terminal and navigate to your home directory.
2. Create a directory named **"YourName"** and navigate into it.
3. Inside **"YourName "**, create three subdirectories: **"Source"**, **"Backup"**, and **"Logs"**.
4. Inside the **"Source"** directory, create the following files in a single command:
   * File1.txt
   * File2.txt
   * readme.txt
5. Write the text **"Shell scripting is powerful!"** into **"readme.txt"** without opening a text editor.
6. Append the current date and time to **"readme.txt"**.
7. Copy **"readme.txt"** from **"Source"** to **"Backup"**, preserving file attributes.
8. Move **"File2.txt"** from **"Source"** to **"Logs"**
9. Change the permissions of **"File1.txt"** to make it executable only for the owner.
10. Verify the permissions of **“File1.txt "**.
11. Set a permission on **"readme.txt"** so that:
    * The owner can read and write.
    * The group can only read.
    * Others have no access.

Output:

