Archiving and Compression – Practical Questions

- 1. Create a directory named myproject and add three sample files inside it. Then create a tar archive of the directory named myproject.tar.
- 2. Extract the myproject.tar archive into a new directory called myproject_extract.
- 3. Create a file named log.txt, add some content, and compress it using gzip.
- 4. Decompress the file log.txt.gz.
- 5. Create a compressed .tar.gz archive of the myproject directory.
- 6. Compress a file named report.txt using bzip2.
- 7. Extract the contents of a .tar.gz file without creating a new directory.
- 8. Extract a .tar.bz2 archive named backup.tar.bz2.
- 9. Create a compressed archive using xz compression for a directory named mydata.
- 10. List the contents of the archive project.tar without extracting it.
- 11. Create a tar archive of multiple files: file1, file2, and file3.
- 12. Compress all .log files in the current directory into a single archive called logs.tar.gz.

Hard Link and Soft Link - Practical Questions

- 13. Create a file named main.txt and create a hard link named main_hardlink.
- 14. Use a command to verify that main.txt and main_hardlink have the same inode number.
- 15. Delete main.txt and verify that main_hardlink still contains the file data.
- 16. Create a file named config.txt and create a soft link named config_symlink.

- 17. Use a command to check the target of the symbolic link config_symlink.
- 18. Delete the original file config.txt and try to open config_symlink. What happens?
- 19. Create a soft link to a directory named project and name it project_link.
- 20. Compare the behavior of hard links and soft links when the original file is removed.