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| Program- BTech-3rd Semester | Type- Sp. Core-I |
| Course Code- CSET213 | Course Name-Linux and Shell Programming |
| Year- 2024 | Semester- Odd |
| Date- 19/08/2022 | Batch- B01-B08 (Cyber Security)   |  | | --- | |  | |

**Lab Assignment 4**

**Objective**: To apply Linux commands as shell scripts

**Outcomes:** Understand how to write and execute basic bash scripts.

1. Write a shell script that prints “Shell Scripting is Fun!” on the screen with and without using a variable. **(5 Minutes)**
2. Write a shell script to print the hostname on which script is running and print “This script is running on $HostName **(10 Minutes)**
3. Write a shell script to check to see if the file “file\_path” exists. If it does exist, display “file\_path passwords are enabled.” Next, check to see if you can write to the file. If you can, display “You have permissions to edit “file\_path.”” If you cannot, display “You do NOT have permissions to edit “file\_path”” **(15 Minutes)**
4. Write a shell script that displays “man”,”bear”,”pig”,”dog”,”cat”,and “sheep” on the screen with each appearing on a separate line. Try to do this in as few lines as possible. **(10 Minutes)**
5. Write a shell script that prompts the user for a name of a file or directory and reports if it is a regular file, a directory, or another type of file. Also perform a ls command against the file or directory with the long listing option. **(10 Minutes)**
6. Modify the previous script to that it accepts the file or directory name as an argument instead of prompting the user to enter it. **(10 Minutes)**
7. Modify the previous script to accept an unlimited number of files and directories as arguments. **(10 Minutes)**
8. Write a shell script to extract the last name from a file having first name and last name.

**(10 Minutes)**

1. Write a shell script to merge the content of three files with tab separated and coma separated formats. **(10 Minutes)**
2. Write a shell script to print all file related information in present working directory such as size, permission, etc. **(10 Minutes)**

**Submission Instructions:**

1. Submission requires the screen shots of all the incurred steps to execute a shell script or a video showing the whole process.
2. All these files are in single zip folder.
3. Use the naming convention: Prog\_CourseCode\_RollNo\_LabNo.docx
4. Submission is through LMS only