

ICS 353: IT Tools (Linux Shell programming and LATEX)

List of Experiments

1. Installation of Linux operating system.
2. Understanding and practice of various Linux commands.
3. Write a shell script that receives any number of file names as arguments and checks if every argument supplied is a file or a directory and reports accordingly. Whenever the argument is a file, the number of lines on it is also reported.
4. Illustrate by writing script that will print, message “Hello World, in Bold and Blink effect, and in different colors like red, brown etc using echo commands?
5. Write a shell script that accepts a file name, starting and ending line numbers as arguments and displays all the lines between the given line numbers.
6. Illustrate by writing script using for loop to print the pyramid patterns?
7. Write a shell script that accepts a list of file names as its arguments, counts and reports the occurrence of each word that is present in the first argument file on other argument files.
8. Installing MiKTeX and text editor (freeware Texmaker/Texworks) to create a LaTeX document.
9. Create simple LaTeX documents.
10. Prepare a scientific report includes Title, Introduction, figures with caption, tables with caption, use of equations, references that uses various features of the LATEX. Sample of the document may be given by the instructor.

Note: The list is indicative. The instructor may add/ modify the list as per his wisdom for better hands-on of the students