

**MARIS STELLA COLLEGE, VIJAYAWADA-8**  
(An autonomous college affiliated to Krishna University)

**Department of Computer Science**  
**Annexure – IV**

**Practical : II**  
**Semester : III**  
**Title : Linux Programming**

**LINUX PROGRAMMING LAB CYCLE**

**Following exercises can be performed using Linux or UNIX**

Usage of following commands:

1. ls, pwd, tty, cat, who, who am I, rm, mkdir, rmdir, touch, cd.
2. cal, cat(append), cat(concatenate), mv, cp, man, date.
3. chmod, grep, tput (clear, highlight), bc.
4. Write a shell script to check if the number entered at the command line is prime or not.
5. Write a shell script to modify “cal” command to display calendars of the specified months.
6. Write a shell script to modify “cal” command to display calendars of the specified range of months.
7. Write a shell script to accept a login name. If not a valid login name display message – “Entered login name is invalid”.
8. Write a shell script to display date in the mm/dd/yy format.
9. Write a shell script to display on the screen sorted output of “who” command along with the total number of users.
10. Write a shell script to display the multiplication table any number,
11. Write a shell script to compare two files and if found equal asks the user to delete the duplicate file.
12. Write a shell script to find the sum of digits of a given number.
13. Write a shell script to merge the contents of three files, sort the contents and then display them page by page.
14. Write a shell script to find the LCD (least common divisor) of two numbers.
15. Write a shell script to perform the tasks of basic calculator.
16. Write a shell script to find the power of a given number.
17. Write a shell script to find the factorial of a given number.
18. Write a shell script to check whether the number is Armstrong or not.
19. Write a shell script to check whether the file have all the permissions or not.
20. Program to show the pyramid of special character “\*”.