## Final Assignment Due Date: 25.01.2025 (Handwritten Softcopy)

- 1. Write a shell script to find the sum of the digits of all the elements in an array.
- 2. Write a shell script to calculate the word count of a file named notes.txt using system variables.
- 3. Write the required shell commands to count the number of lines in a file named records.txt.
- 4. Write a shell program to replace every occurrence of the word "error" with "issue" in a file named log.txt.
- 5. Write a shell script to read the contents of a file named names.txt and count the total number of words.
- 6. Write a shell program to calculate the sum of the first 10 numbers in a Fibonacci series.
- 7. Write a shell program to calculate the factorial of a number given as input by the user.
- 8. Write the required shell commands to display only the first 10 lines of a file named info.txt.
- 9. Write a shell program to count and display the number of unique elements in an array.
- 10. Write a shell script to display the last 5 lines of a file named data.txt.
- 11. Write a shell program to search for a given pattern "INFO" in a file named output.txt and count the occurrences.
- 12. Write a shell program to reverse the order of lines in a file named log.txt.
- 13. Write a shell script to read a file words.txt and display all lines containing the word "priority".
- 14. Write a shell script to calculate and display the product of the series [1 \* 11 \* 111 ... \* NNN..].
- 15. Write a shell script to calculate and display the product of the series [10 \* 100 \* 1000 ... \* NNN..].
- 16. Write a shell program to find and display the largest element in an array.
- 17. Write a shell script to calculate and display the sum of squares of numbers in an array.
- 18. Write the required shell commands to check if the word "completed" exists in a file named task.txt.
- 19. Write a shell program to read a file names.txt and display the full name in reverse order (Last Name, Middle Name, First Name).
- 20. Write a shell script to find the frequency of a specific word provided as input by the user in a file notes.txt.
- 21. Write a shell program to remove all blank lines from a file named log.txt.
- 22. Write a shell script to read multiple filenames from the user and sort the contents of each file.
- 23. Write the required shell commands to display the size of a file named data.txt in bytes.
- 24. Write a shell program to calculate and display the sum of all numbers in an array greater than 10.
- 25. Write a shell script to display the first name and last name separately from a single-line input provided by the user.
- 26. Write a shell script to find and replace a word provided by the user in a file named document.txt.
- 27. Write the required shell commands to append the current date and time to a file named logfile.txt.
- 28. Write a shell script to calculate the average of all numbers in an array.
- 29. Write a shell script to count and display the number of files and directories in the current working directory.
- 30. Write a shell program to sort the contents of a file named data.txt in reverse order and display the output.