

Assignment-4(DESD & DSSD)

1. Using pointers, write a function that receives a character string and a character as argument and deletes all occurrences of this character in the string. The function should return the corrected string with no holes .
2. Write a program to extract a portion of a character string and print the extracted string. Assume that m characters are extracted, starting with nth character .
3. Develop a program to read lines and print only those containing a certain word .
4. Write a program to reverse a string using pointers
5. Develop a program to calculate nPr and nCr given n and r
6. Write a program that will open a file and report on the number of lines, characters, and words in a file. Have the name of the file to be opened appear as a command line argument.
7. Write a program to remove trailing blanks and tabs from each line of input, and to delete entirely blank lines.
8. Write the versions of the library functions `strncpy`, `strncat`, and `strncmp`, which operate on at most the first n characters of their argument strings. For example, `strncpy(s,t,n)` copies at most n characters of t to s.
9. Write a program to remove all the comments from a 'C' program.
10. Write a program to display all the vowels in a given line of text.
11. Write a program to read your name into a character array. Print the name along with the length of your name and sizeof the array in which name is stored
12. Write a program to read n number of strings using two-dimensional character array, sort them and display the sorted list of strings on the screen.
13. Write a C program with a function `tolower`, which converts upper case letters to lower case. Use conditional expression
14. Write a C program with a recursive function `itoa`, which converts integer into a string
15. Write a program to print out all rotations of a string typed in. For eg:if the input is "Space", the output should be: space paces acesp cespa espac
16. Write a program to count the number of 'e' in the following array of pointer to the string.
`char * s [] = {`
 "we will teach you how to " ;
 "Move a mountain " ;
 "Level a building " ;
 "Erase the past " ;
`}`

```
        "Make a million " ;  
    }
```

17. Write a program that converts all lowercase characters in given string to its equivalent uppercase character.
18. Write a program that converts a string like "124" to an integer 124.
19. Write a program that replaces two or more consecutive blanks in a string by a single blank. For example, if the input is
Grim return to the planet of apes!!
the output should be
Grim return to the planet of apes!!
20. Write a program to sort a set of names stored in an array in alphabetical order.
21. Write a program to delete all vowels from a sentence. Assume that the sentence is not more than 80 characters long.
22. Write a program that will read a line and delete from it all occurrences of the word 'the'.
23. Write a program that takes a set of names of individuals and abbreviates the first, middle and other names except the last name by their first letter.
24. Write a program to count the number of occurrences of any two vowels in succession in a line of text. For example, in the sentence
"Pleases read this application and give me gratuity"
such occurrences are ea, ea, ui.
25. Write a program to reverse a string using recursive functions.