PPA 5

Assignment: String

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Instructions:
- **Complete this assignment in next 48 hours.**
- **Submit the solution to your leaders.**
- **Ask for help to your leaders if it is really a need.**

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Program 1. Write a program which accept sentence from user and print that sentence.

> **Input:** My name is
> **Output:** My name is

Program 2. Write a program which accepts a string from user which contains a characters from 'b' to 'y'.

> **Input:** mn jn kn kazfd
> **Output**: mn jn kn k

Program 3. Write a program which accept sentence from user and print number of small letters, capital letters and digits from that sentence.

> **Input**: abcDE 5Glm1 O
> **Output**: Small:5 Capital: 4 Digits: 2

Program 4. Write a program which accept sentence from user and print length of that sentence (Implement strlen()).

> **Input**: India is my
> **Output**: 11

Program 5. Write a program which accept sentence from user and print number of white spaces from that sentence.

> **Input**: In my company
> **Output**: 2

Program 6. Write a program which accept sentence from user and print number of words from that sentence.

      Input: In my company
      Output: 3

Program 7. Write a program which accept sentence from user and print number of words of even and odd length from that sentence.

      Input: In my company
      Output: Even: 2 Odd:1

Program 8. Write a program which accept sentence from user and print last word from that sentence.

      Input: In my company
      Output: company

Program 9. Write a program which accept sentence from user and position from user and print the word at that position.

      Input: is my he she 3
      Output: he

Program 10. Write a program to convert the string from upper case to lower case (Implement strlwr()).

      Input: DevIce DriVer
      Output: device driver

Program 11. Write a program to convert the string from lower case to upper case (Implement strupr()).

      Input: DevIce DriVer
      Output: DEVICE DRIVER

Program 12. Write a program which toggles the case of a string.

      Input: DevIce DriVer
      Output: dEViCE dRIvER

Program 13. Write a program to check whether given strings are Anagram strings or not.

> **Input**: abccd cbcda
> Output: Strings are anagram

Program 14. Write a program which accept string from user and copy that string into some another string (Implement strcpy()).

Program 15. Write a program which accept string from user and copy first N charaters into some destination string (Implement strncpy()).

> **Input**: India is my 8
> **Output**: India is

Program 16. Write a program which accept string from user and accept number N then copy last N character into some another string.

> **Input**: India is my 5
> **Output**: is my

Program 17. Write a program which accept two strings from user and append second string after first string(Implement strcat()).

> **Input**: FirStr SecStr
> **Output**: FirStrSecStr

Program 18. Write a program which accept two strings from user and append N characters of second string after first string(Implement strncat()).

> **Input**: FirStr SecStr 4
> **Output**: FirStrSecS

Program 19. Write a program which accept two strings from user and compare two strings. If both strings are equal then return 0 otherwise return difference between first mismatch character (Implement strcmp()).

> **Input**: FirStr FirStr
> **Output**: Both strings are equal.

Program 20. Write a program which accept two strings from user and compare only first N characters of two strings. If both strings are equal till first N characters then return 0 otherwise return difference between first mismatch character (Implement strncmp()).

     Input: FirStr FirNew 3
     Output: Both strings are equal.

Program 21. Write a program which accept two strings from user and compare two strings without case sensitivity. If both strings are equal then return 0 otherwise return difference between first mismatch character (Implement stricmp()).

     Input: FirStr FIRStR
     Output: Both strings are equal.

Program 22. Write a program which accept string from user and then reverse the string without taking another string (Implement strrev()).

     Input: Hello World
     Output: dlroW olleH

Program 23. Write a program which accept string from user and then reverse the string till first N characters without taking another string.

     Input: Hello World 5
     Output: olleH World

Program 24. Write a program which accept string from user and then reverse the string till last N characters without taking another string.

     Input: Hello World 5
     Output: Hello dlroW

Program 25. Write a program which accept string from user and then accept range and reverse the string in that range without taking another string.

     Input: Hello World 3 8
     Output: HeoW ollrld

Program 26. Write a program which accept string from user and reverse words from that string.

      Input: Hello World
      Output: olleH dlroW

Program 27. Write a program which accept string from user and reverse words from that string which are of even length.

      Input: New HO abcd can
      Output: New OH dcba can

Program 28. Write a program which accept string from user and check whether string is palindrome or not.

      Input: level
      Output: String is palindrome.

Program 29. Write a program which sets all characters in string to a specific character (Implement strset()).

      Input: HelloWorld a
      Output: aaaaaaaaaa

Program 30. Write a program which sets first N characters in string to a specific character (Implement strnset()).

      Input: HelloWorld a 8
      Output: aaaaaaaald

Program 31. Write a program which sets first N characters in string to a specific character

      Input: HelloWorld a 8
      Output: Heaaaaaaaa

Program 32. Write a program which accept string from user and search first occurrence of specific character in string and return the position at which character is found (Implement strchr()).

    Input: India is my country. M
    Output: Character m is found at position 1

Program 33. Write a program which accept string from user and search last occurrence of specific character in string and return the position at which character is found (Implement strchr()).

    Input: India is my country. n
    Output: Character m is found at position 1