RAYS *Computer Education*

[A Unit of Rays Edutech Pvt. Ltd.]

"*Feel the Sensation of your Destination*"

BY- Rahul Singh

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Cont No:- +91- 7091599160

0612 - 2321928

2nd **Floor, Anam Plaza, Salimpur Ahra, South East Gandhi Maidan, Patna - 1**

1. Write an application program in 'C' language to **accept 10 numbers** in a matrix and display the same in matrix format using **two dimensional numeric arrays**.

2. Write an application program in 'C' language to accept 10 numbers in a matrix calculate and display the sum, average and production.

3. Write an application program in 'C' language to accept 10 numbers in a matrix calculate and display the total count of positive even and positive odd numbers.

4. Write an application program in 'C' language to accept numbers in 4x5 matrix calculate and display the greatest and least value using 2d numeric array.

5. Write an application program in 'C' language to accept numbers in 3x3 matrix calculate and display the sum of diagonal elements.

6. Write an application program in 'C' language to accept numbers in 4x5 matrix calculate and display the sum of diagonal elements.

7. Write an application program in 'C' language to accept numbers in two 4x5 matrixes calculate and display the sum of the matrixes in a matrix format.

8. Write an application program in 'C' language to accept numbers in 4x5 matrix calculate and display its transpose matrix in a matrix format.

9. Write an application program in 'C' language to accept numbers in 4x5 matrix calculate the sum of the matrix and its transpose matrix and display the same.

10. Write an application program in 'C' language to accept numbers in MxM matrix calculate and display the sum of the diagonal elements.

11. Write an application program in 'C' language to accept numbers in MxN matrix calculate and display the sum of diagonal elements.

12. Write an application program in 'C' language to accept numbers in MxN matrix calculate and display the greatest and least value.

13. Write an application program in 'C' language to accept numbers in MxN matrix calculate and display the total count of negative even and odd numbers.

14. Write an application program in 'C' language to accept numbers in MxN matrix calculate and display the sum, average and product of the numbers.

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PracticeSet-2: Applications Based on Single Dimensional Character Array: -

1. Write an application program in 'C' language **to accept a string** from keyboard and display the same on the screen **using pointer**.

   [Hint: - Attempt-1 → Whole String at a time]
   [Hint: - Attempt-2 → Character-by-Character using Pointer Arithmetic Method]
   [Hint: - Attempt-3 → Character-by-Character using Pointer Index Method]
   [Hint: - Attempt-4 → Character-by-Character using Pointer, [] and Index]

2. Write an application program in 'C' language **to accept a string** from keyboard and display the same on the screen **using one dimensional character array**.

3. Write an application program in 'C' language to accept a string, count and display the **length of the given string** using one dimensional character array.

4. Write an application program in 'C' language **to accept a string** and display the **reverse of the given string** using one dimensional character array.

5. Write an application program in 'C' language to accept a string, store its reverse in another array and display the same on the standard output device using array.

6. Write an application program in 'C' language to accept two strings, copy the second string on to the first one, and display the copied string.

7. Write an application program in 'C' language to accept two strings, concatenate the second string at the end of first string, and display the concatenated string.

8. Write an application program in 'C' language to accept two strings, check and display whether the strings are same or not.

9. Write an application program in 'C' language to accept a string, check and display the message whether the string is palindrome or not.

10. Write an application program in 'C' language to accept a string, convert the given string into upper case and display the same using one dimensional character array.

11. Write an application program in 'C' language to accept a string, convert the given string into lower case and display the same using one dimensional character array.

12. Write an application program in 'C' language to accept a string, convert all upper case letters into lower case and vice-versa and display the same.

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13. Write an application program in 'C' language to accept a string, convert the given string into proper case and display the same.

14. Write an application program in 'C' language to accept a string, count the total number of characters, spaces, and tabs and display the same.

14. Write an application program in 'C' language to accept a string, count and display the total number of words and display the same.

15. Write an application program in 'C' language to accept a string and a character, count the total number of occurrence of the character in the given string and display the same on the standard output device using single dimensional array.

16. Write an application program in 'C' language to accept a string and display the total count of words and characters in the following format: -

```
========================
Word Count Statistics: -
========================
Total Words                    ::      ?
--------------------------------------------------------
Total Characters with spaces   ::      ?
Total Characters without spaces ::     ?
--------------------------------------------------------
Total Count of spaces          ::      ?
--------------------------------------------------------
Total Count of backspaces      ::      ?
--------------------------------------------------------
Total Count of A               ::      ?
--------------------------------------------------------
Total Count of a               ::      ?
--------------------------------------------------------
Total Count of B               ::      ?
--------------------------------------------------------
Total Count of C               ::      ?
--------------------------------------------------------
Total Count of c               ::      ?
--------------------------------------------------------
     .
     .
--------------------------------------------------------
Total Count of Z               ::      ?
--------------------------------------------------------
Total Count of z               ::      ?
```

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1. Write an application program in 'C' language to accept 20 numbers from keyboard and display the same on the screen using pointer.

[Hint: - Attempt-1 → Use Pointer Arithmetic Method]
[Hint: - Attempt-2 → Use Pointer Index Method]

2. Write an application program in 'C' language to accept 20 numbers calculate and display the sum of the given numbers using an array.

[Hint: - Attemp-1 → Use An Numeric One Dimensional Array]
[Hint: - Attempt-2 → Use Pointer Arithmetic Method]
[Hint: - Attempt-3 → Use Pointer Index Method]

1. Write an application program in 'C' language to accept 20 numbers calculate and display the **sum, product and average** value on the standard output device.

2. Write an application program in 'C' language to accept 20 numbers check and display the total count of $+^{ve}$, $-^{ve}$ and **zeros** on the standard output device.

3. Write an application program in 'C' language to accept 20 numbers check and display the total count of **even and odd** numbers on the standard output device.

4. Write an application program in 'C' language to accept 20 numbers check and display the total count of **positive even numbers and negative odd numbers**.

5. Write an application program in 'C' language to accept N numbers check and display the greatest and least value using one dimensional numeric array.

6. Write an application program in 'C' language to accept 9-digits positive number calculate and display the reverse value using one dimensional numeric array.

7. Write an application program in 'C' language to accept **9-digits** positive number calculate and display the **sum of digits** using one dimensional numeric array.

8. Write an application program in 'C' language to accept **20-digits** positive number calculate and display the **sum of digits** using one dimensional numeric array.

9. Write an application program in 'C' language to accept **N-digits** positive number calculate and display the **sum of digits** using one dimensional numeric array.

WAP in 'C' language to accept a positive decimal number calculate and display its **binary, octal and hexadecimal** equivalent number using 1d numeric ar