

## Assignment 04 pointer

### ***Problem 1:***

Write a C program to input elements in an array and print the elements and reverse array's elements using pointers.



```
Enter size of Array: 10
Enter the elements in array: 1 2 3 4 5 6 7 8 9 10
Array elements: 1 2 3 4 5 6 7 8 9 10
The elements of array in reverse order are: 10 9 8 7 6 5 4 3 2 1
```

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### ***Problem 2:***

Write a C program to find reverse of a given string using pointers.



```
Enter any string: Mohammed

Original string: Mohammed
Reverse string: demmahOM
```

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### ***Problem 3:***

Write a C program to calculate the length of a string using a pointer.

**Problem 4:**

Write a C program to Swap elements using call by reference.

```
● ● ●
Input the value of 1st element : 5
Input the value of 2nd element : 6
Input the value of 3rd element : 7

The value before swapping are :
element 1 = 5
element 2 = 6
element 3 = 7

The value after swapping are :
element 1 = 7
element 2 = 5
element 3 = 6
```

.....  
**Problem 5:**

Write a C program to access members of a structure using pointers.

```
● ● ●
Enter name: Mohammed
Enter age: 22
Enter ID: 15
=====
Displaying:
name: Mohammed
Age: 22
ID: 15
```