**Workshop 6, 7, 8**

**Q1.** Write a program to separate odd and even integers in separate arrays. 

***Test Data :***   
Input the number of elements to be stored in the array :5   
Input 5 elements in the array :   
element - 0 : 25   
element - 1 : 47   
element - 2 : 42   
element - 3 : 56   
element - 4 : 32   
***Expected Output* :** 

The Even elements are :   
42 56 32   
The Odd elements are :   
25 47

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**Q2.** Write a program to sort elements of array in ascending order.

***Test Data :***   
Input the size of array : 5   
Input 5 elements in the array :   
element - 0 : 2   
element - 1 : 7   
element - 2 : 4   
element - 3 : 5   
element - 4 : 9 

***Expected Output* :**Elements of array in sorted ascending order:   
2 4 5 7 9

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**Q3**. Write a program in C to find the second smallest element in an array.

***Test Data :***   
Input the size of array : 5   
Input 5 elements in the array (value must be <9999) :   
element - 0 : 0   
element - 1 : 9   
element - 2 : 4   
element - 3 : 6   
element - 4 : 5

**Expected Output :**The Second smallest element in the array is : 4

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**Q4.** Write a program to insert New value in the array (unsorted list ).

***Test Data :***   
Input the size of array : 4   
Input 4 elements in the array in ascending order:   
element - 0 : 1   
element - 1 : 8   
element - 2 : 7   
element - 3 : 10   
Input the value to be inserted : 5   
Input the Position, where the value to be inserted :2 

**Expected Output :**The current list of the array :   
1 8 7 10   
After Insert the element the new list is :   
1 5 8 7 10

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**Q5**. Write a program to find the largest and smallest word in a string.

***Test Data :***   
Input the string : It is a string with smallest and largest word.

***Expected Output :***

The largest word is 'smallest'

and the smallest word is 'a'

in the string : 'It is a string with smallest and largest word.'.