

DSL A-01

Q1. What is Structure?

Ans: A Structure is a user-defined data type in C++. A structure creates a data type that can be used to group items of possibly different types into a single type.

The 'struct' keyword is used to create a structure. The general syntax to create a structure is as shown below.

```
struct NameOfStructure {  
    member 1 ;  
    member 2 ;  
    .  
    member N ;  
}
```

Structures in C++ can contain two types of members:

- Data Member :

These members are normal C++ variables. We can create a structure with variables of different data types in C++.

- Member Function :

These members are normal C++ functions. Along with variables, we can also include functions inside a structure declaration.

2. How to delete an element from array?

Ans: Deleting refers to removal of an element from an Array, without effecting the sequence of the other elements.

To do so we want to overwrite or copy next element to same position from which we want to delete a element. Then repeating the same thing with next elements of a array upto last element.

From the above explanation we can develop algorithm like given below.

Algorithm:

1. Find the given element in the given array and store the index.

2. If the element found,

Shift all the elements from index+1 by 1 position to the left.

Reduce the array size by 1.

3. else, print "element not found".