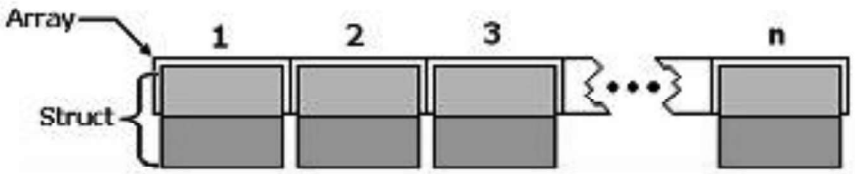
8-3 Array of Structures:

The **struct** is a data-type. So we can define an array as an array of struct, like define an array as an array of int, or of any other C++ data-types.



However, the following simple example shown how can create and use an ***array of struct***.

Simple Example:

This simple example to show how can create and use an array of structure.

```
#include<iostream.h>

typedef struct
{
        char *name;
        int age;
} student;

void main ( )
{
        student  array [10];
        array [1] . name = "ahmed";
        array [1] . age = 20;
        cout  <<  array[1] . name  <<  endl;
        cout  <<  array[1] . age;
}
```

```
cin >> array [1] . name ;
cin >> array [1] . age ;
```

Example 8.1:

Write a C++ Program, using structure type, to read name and age for ten students.

```
#include<iostream.h>

typedef struct
{
        char *name;
        int age;
} student;
```

```
void main ( )
{
        student   array [10];

        for ( i = 0 ; i < 10 ; i++ )
        {
            cin >> array [1] . name;
            cin >> array [1] . age;
        }

        for ( i = 0 ; i < 10 ; i++ )
        {
        cout  <<  array[1] . name  <<  endl;
        cout  <<  array[1] . age;
        }

}
```