Arrays of Structures

◆ The converse of a structure with arrays:

◆ Example:

```
struct  entry {
    char  fname [10] ;
    char  lname [12] ;
    char phone [8] ;
} ;
struct entry list [1000];
```

◆ This creates a list of 1000 identical entry(s).

◆ Assignments:

```
list [1] = list [6];
strcpy (list[1].phone, list[6].phone);
list[6].phone[1] = list[3].phone[4] ;
```

An Example

```c
#include <stdio.h>
struct entry {
    char fname [20];
    char lname [20];
    char phone [10];
} ;
```

```c
int main() {
    struct entry list[4];
    int i;
    for (i=0; i < 4; i++) {
        printf ("\nEnter first name: ");
        scanf  ("%s", list[i].fname);
        printf ("Enter last name: ");
        scanf  ("%s", list[i].lname);
        printf ("Enter phone in 123-4567 format: ");
        scanf  ("%s", list[i].phone);
    }
    printf ("\n\n");
    for (i=0; i < 4; i++) {
        printf ("Name: %s %s", list[i].fname, list[i].lname);
        printf ("\t\tPhone: %s\n", list[i].phone);
    }
}
```