

B.C.A. Semester - II BCA-201 : Advance Programming Language C

Unit 2 : Structures & Unions

Structures within Structures

Structures within structures, also known as nested structures, refer to the concept of defining a structure within another structure. This means that one structure can have another structure as its member.

Example:

```
#include <stdio.h>
#include <string.h>
struct Date
{
    int day;
    int month;
    int year;
};
struct Person
{
    char name[10];
    int age;
    struct Date dob;
};
void main()
{
    struct Person p1;
    strcpy(p1.name, "John");
    p1.age = 22;
    p1.dob.day = 18;
    p1.dob.month = 2;
    p1.dob.year = 2000;
    printf("Name: %s\n", p1.name);
    printf("Age: %d\n", p1.age);
    printf("DOB: %d-%d-%d\n", p1.dob.day, p1.dob.month, p1.dob.year);
}
```

Output:

Name: John

Age: 22

DOB: 18-2-2000