## (x) Structure within structure [Nested Structure]. (x) U-Im

→ Nested structure in 'c' is nothing but structure with in structure.

→ One structure can be declared inside another structure as a member of another structure.

Syntax:

```
Struct structure1
{
    member of structure1;
};
Struct structure2
{
    member of structure2;
    Struct structure1, variable;
};
```

Ex:

```
Struct college
{
    int cid;
    char cname[50];
};
Struct student
{
    int rollno;
    char name[20];
    float percentage;
    Struct college clg;
} std;
```

example: of structure within structure:

```
#include <stdio.h>
#include <conio.h>
struct college
{   int cid;
    char cname[50];
};
struct student
{   int rollno;
    char sname[50];
    float percentage;
    struct college clg;
} std;
void main()
{   struct student std = { 654, "Sai", 97.5, 7133,
                           "SNSCE" };
clrscr();
printf("Student roll number is %d\n", std.rollno);
printf("Student name is %s\n", std.sname);
printf("Student percentage is %f\n", std.
                                    percentage);
printf("college id is %d\n", std.clg.cid);
printf("College name is %s\n", std.clg.cname);
getch();
}
```

O/P

Student roll number is : 654
Student name is : Sai
Student percentage is : 97.5
College id is : 7133
College name is : SNSCE