

Aim:

Write a program to print student details using **nested structures**.

The structure `student` contains the fields `regdno`, `name` and `date`. `Date` is the nested structure and it contains the fields `day`, `month` and `year`.

At the time of execution, the program should print the following messages one by one on the console as:

```
Enter student number :
Enter student name :
Enter date of joining :
```

For example, if the user gives the **input** as:

```
Enter student number : 1002
Enter student name : Saraswathi
Enter date of joining : 31 01 2019
```

then the program should **print** the result as:

```
The student details are :
Number : 1002
Name : Saraswathi
Date of joining : 31-1-2019
```

Note - 1: Do use the `printf()` function with a **newline** character (`\n`).

Note - 2: Write the functions `read()` and `display()` in `NestedStructureFunctions.c`

Source Code:NestedStructureMain.c

```
#include <stdio.h>
struct student {
    int regdno;
    char name[30];
    struct date {
        int day;
        int month;
        int year;
    } doj;
};
#include "NestedStructureFunctions.c"
void main() {
    int i;
    struct student s;
    read(&s);
    printf("The student details are : \n");
    display(s);
}
```

```

void read(struct student*s);
void display(struct student p);
void read(struct student*s)
{
    printf("Enter student number : ");
    scanf("%d",&s->regdno);
    printf("Enter student name : ");
    scanf("%s",s->name);
    printf("Enter date of joining : ");
    scanf("%d%d%d",&s->doj.day,&s->doj.month,&s->doj.year);
}
void display (struct student s)
{
    printf("Number : %d\n",s.regdno);
    printf("Name : %s\n",s.name);
    printf("Date of joining : %d-%d-%d\n",s.doj.day,s.doj.month,s.doj.year);
}

```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter student number : 1001
Enter student name : Sachin
Enter date of joining : 12 06 1987
The student details are :
Number : 1001
Name : Sachin
Date of joining : 12-6-1987

Test Case - 2
User Output
Enter student number : 2001
Enter student name : Lakshmi
Enter date of joining : 15 08 2018
The student details are :
Number : 2001
Name : Lakshmi
Date of joining : 15-8-2018