

## **\*Nested Structure\***

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**Topic:Nested Structure.**

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<.....>

### **1.Employee.**

```
#include<stdio.h>
```

```
#include<string.h>
```

```
typedef struct Date
```

```
{
```

```
    int day;
```

```
    int month;
```

```
    int year;
```

```
}Date;
```

```
typedef struct Employee
```

```
{
```

```
    int id;
```

```
    char name[100];
```

```
    double salary;
```

```
    Date dob;
```

```
    Date doj;
```

```
    Date dol;
```

```
}Employee;
```

```
void main()
{
    Employee e,e1;
    //e hardcoded
    e.id=1;
    strcpy(e.name,"Tony Stark");
    e.salary=120000.29;
    e.dob.day=26;
    e.dob.month=04;
    e.dob.year=1999;
    e.doj.day=11;
    e.doj.month=02;
    e.doj.year=2021;
    e.dol.day=00;
    e.dol.year=00;
    e.dol.month=00;
    printf("_____  
_____"");
    printf("\nHard Coded Data of Employee");
    printf("\n_____  
_____"");
    printf("\nEmployee Details");
    printf("\n_____  
_____"");
    printf("\nEmployee id:%d",e.id);
    printf("\nEmployee Name:%s",e.name);
    printf("\nEmployee id:%.2lf Rupees/-",e.salary);
    printf("\n_____  
_____"");
```

```
printf("\nEmployee Date of Birth:\nDay:%d\nMonth:%d\nYear:%d",e.dob.day,e.dob.month,e.dob.year);
```

```
printf("\n_____  
_____");
```

```
printf("\nEmployee Date of Joining:\nDay:%d\nMonth:%d\nYear:%d",e.doj.day,e.doj.month,e.doj.year);
```

```
printf("\n_____  
_____");
```

```
printf("\nEmployee Date of Leaving:\nDay:%d\nMonth:%d\nYear:%d",e.dol.day,e.dol.month,e.dol.year);
```

```
printf("\n_____  
_____");
```

```
//e1 from user
```

```
printf("\nHey Answer below Question to Enter data Manually");
```

```
printf("\n_____  
_____");
```

```
printf("\nEnter Employee id:");
```

```
scanf("%d",&e1.id);
```

```
fflush(stdin);
```

```
printf("\nEnter Employee Name:");
```

```
gets(e1.name);
```

```
fflush(stdin);
```

```
printf("\nEnter Employee Salary:");
```

```
scanf("%lf",&e1.salary);
```

```
printf("\n_____  
_____");
```

```
puts("\nEnter Employ Date of Birth:");
```

```
printf("\n_____  
_____");
```

```
printf("\nDay:");
```

```
scanf("%d",&e1.dob.day);
```

```
printf("\nMonth:");  
scanf("%d",&e1.dob.month);  
printf("\nYear:");  
scanf("%d",&e1.dob.year);
```

```
printf("\n_____  
_____");
```

```
printf("\nEmployee Date of Joining:");
```

```
printf("\n_____  
_____");
```

```
printf("\nDay:");  
scanf("%d",&e1.doj.day);  
printf("\nMonth:");  
scanf("%d",&e1.doj.month);  
printf("\nYear:");  
scanf("%d",&e1.doj.year);
```

```
printf("\n_____  
_____");
```

```
printf("\nEmployee Date of Joining:");
```

```
printf("\n_____  
_____");
```

```
printf("\nDay:");  
scanf("%d",&e1.dol.day);  
printf("\nMonth:");  
scanf("%d",&e1.dol.month);  
printf("\nYear:");  
scanf("%d",&e1.dol.year);
```

```
printf("\n_____  
_____");
```

```
printf("Hey ur Entered Data is:");
```

```

printf("\n_____
_____");

printf("Employee id:%d",e1.id);

printf("Employee Name:%s",e1.name);

printf("Employee id:%.2lf Rupees/-",e1.salary);

printf("\n_____
_____");

printf("Employee Date of
Birth:\nDay:%d\nMonth:%d\nYear:%d",e1.dob.day,e1.dob.month,e1.dob.year);

printf("\n_____
_____");

printf("Employee Date of
Joining:\nDay:%d\nMonth:%d\nYear:%d",e1.doj.day,e1.doj.month,e1.doj.year);

printf("\n_____
_____");

printf("Employee Date of
Leaving:\nDay:%d\nMonth:%d\nYear:%d",e1.dol.day,e1.dol.month,e1.dol.year);

printf("\n_____
_____");

}

```

<.....>

## 2.Student.

```

#include<stdio.h>

#include<string.h>

typedef struct Student
{

    int fbid;

    int fbbatchid;

```

```
char sname[50];
```

```
float distance;;
```

```
}Student;
```

```
typedef struct PlacedStudent
```

```
{
```

```
    int companyid;
```

```
    char companyname[100];
```

```
    char companydesignation;
```

```
}PlacedStudent;
```

```
void main()
```

```
{
```

```
    Student s,s1;
```

```
    PlacedStudent p;
```

```
    //student hardcoded
```

```
    s.fbid=1;
```

```
    s.fbbatchid=121;
```

```
    strcpy(s.sname,"Ravi Zanke");
```

```
    s.distance=23.22;
```

```
    printf("_____  
_____"
```

```
    printf("\nHard Coded Data of FirstBit Student:");
```

```

printf("\n_____
_____");

printf("\nStudent Details");

printf("\n_____
_____");

printf("\nStudent id           :%d",s.fbid);
printf("\nStudent Batch id    :%d",s.fbid);
printf("\nStudent Name           :%s",s.sname);
printf("\nDistance Travelled   :%.2f km",s.distance);

//student from user
printf("\n_____
_____");

printf("\n*****FirstBit Karwa 2023*****");
printf("\n_____
_____");

printf("\nHey Answer below Question to Enter data Manually");
printf("\n_____
_____");

printf("\nStudent id           :");
scanf("%d",&s1.fbid);

printf("\nStudent Batchid       :");
scanf("%d",&s1.fbatchid);

fflush(stdin);

printf("\nStudent Name           :");
scanf("%[^\n]s",&s1.sname);

fflush(stdin);

printf("\nStudent Distance Travelled :");
gets(&s1.distance);

```

```

printf("\n_____
_____");

printf("\n***\t\tPlaced Student Section\t\t*** ");

printf("\n_____
_____");

printf("\nHey Answer below Question to Enter data Manually");

printf("\n_____
_____");

printf("\nStudent Company id          :");
scanf("%d",&p.companyid);

fflush(stdin);

printf("\n\nStudent Company Name :");
scanf("%[^\\n]s",&p.companyname);

fflush(stdin);

printf("\nStudent Name                :");
scanf("%[^\\n]s",&p.companydesignation);

fflush(stdin);

printf("_____
_____");

printf("\nYour Entered Data for FirstBit Student:");

printf("\n_____
_____");

printf("\nStudent Details");

printf("\n_____
_____");

printf("\nStudent id                      :%d",s1.fbid);
printf("\nStudent Batchid              :%d",s1.fbatchid);
printf("\nStudent Name                  : %s",s1.sname);
printf("\nDistance Travelled By Student :%.2f km",s1.distance);

```



```
printf("\n_____  
_____");  
  
printf("\n\t\t\tStudent Company Details");  
  
printf("\n_____  
_____");  
  
printf("\nStudent Company id      :%d",p.companyid);  
printf("\nStudent Company Name      :%s",p.companyname);  
printf("\nStudent Company Designation :%s",p.companydesignation);  
  
}
```