

Array type of structure

If we want to store 10 record of student having serial number, name and salary then we use the array of structure

```
struct student stu[10];
```

	sno	name	sal
stu[0]			
stu[1]			
stu[2]			

stu has 10 Record which you can store 10 differnet person having sno, name and sal.

Acessing a structure of Array

```
for(i=0;i<10;i++)
{
    printf("\n Enter the serial Number Name and salary ");
    scanf("%d%s%f",&sl,name,&amt);
    Stu[i].sno=sl;
    strcpy(stu[i].name, name);
    stu[i].sal=amt;
}
```

Display a structure of Array

```
for(i=0;i<10;i++)
{
    printf("\n %d %s %f",stu[i].sno,stu[i].name,stu[i].sal);
}
```

7. Write a C program to find out the area of circle using array of structure.

```
struct area
{
    int r;
    float p;
};

void main()
{
    struct area ar[10];
```

```
int r1,i;
float a1;
clrscr();
for(i=0;i<10;i++)
{
    printf("\n Enter the Radius = ?");
    scanf("%d",&r1);
    ar[i].r=r1;
}
for(i=0;i<10;i++)
{
    ar[i].p=3.14*ar[i].r*ar[i].r;
}
for(i=0;i<10;i++)
{
    printf("\n %d = %f",ar[i].r, ar[i].p);
}
getch();
}
```

8. **Declare a structure which contains the following member and write a program in C to list all students who scored more then 75 marks.**

Roll No, name, age, marks.

```
struct student
{
    int roll;
    char name[10];
    int age;
    int marks;
};
void main()
{
    struct student stu[5];
    char n[10];
    int r,a,m,i;
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("\n Enter Roll Number ");
        scanf("%d",&r);
```



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```
printf("\n Enter Name ");
scanf("%s",n);
printf("\n Enter age ");
scanf("%d",&a);
printf("\n Enter marks ");
scanf("%d",&m);
stu[i].roll=r;
strcpy(stu[i].name,n);
stu[i].age=a;
stu[i].marks=m;
}
for(i=0;i<5;i++)
{
if(stu[i].marks>75)
printf("\n%d%s%d%d",stu[i].roll,stu[i].name,stu[i].age,stu[i].marks);
}
getch();
}
```



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