

# EXPERIMENT NO.10

## SOLUTIONS

1. Write a program to

- Define the structure **student** having member's rollno, name, address, marks.
- Initialize the structure for single student by taking input at compile time
- Display the information

```
#include<stdio.h>

#include<conio.h>

struct student
{
char name[20];
char add[50];
int roll;
float marks;
};

void main()
{
struct student s={"Ram","Kolhapur",1001,86.20};
clrscr();

printf("Name of the student:%s\n",s.name);
printf("Address of the student:%s\n",s.add);
printf("Roll no. of the student:%d\n",s.roll);
printf("Mark of the student:%0.2f\n",s.marks);
getch();
}
```

2. Write a program to

- Define the structure **book** having members book\_id ,title, author, price.
- Initialize the structure for single book by taking input at run time
- Display the information

```
#include<stdio.h>
#include<conio.h>
struct book
{
int id;
char title[20];
char author[20];
int price;
};
void main()
{
struct book b;
clrscr();
printf("Enter id of the book:\n");
scanf("%d",&b.id);
printf("Enter title:\n");
scanf("%s",b.title);
printf("Enter name of the author:\n");
scanf("%s",b.author);
printf("Enter the price:\n");
scanf("%d",&b.price);
printf("Entered data is:-\n");
printf("Id of the book:%d\n",b.id);
printf("Title:%s\n",b.title);
printf("Name of the author:%s\n",b.author);
printf("Price:%d\n",b.price);
```

```
getch();  
}
```

3. Write a program to

- Define structure **Cricket\_Team** having element player\_name, age, score\_in\_ODI.
- Declare and do Initialization the structure for 5 cricketers by taking input at run time
- Display the information of all cricketers.

```
#include<stdio.h>  
#include<conio.h>  
  
struct cricket  
{  
char name[20];  
int age;  
int score;  
};  
  
void main()  
{  
int i;  
struct cricket c[5];  
clrscr();  
for(i=0;i<5;i++)  
{  
printf("Enter the name of the player:");  
scanf("%s",c[i].name);  
printf("Enter age:");  
scanf("%d",&c[i].age);  
printf("Enter score in ODI:");  
scanf("%d",&c[i].score);  
}  
printf("Entered data is:\n");
```

```

for(i=0;i<5;i++)
{
printf("Name of the player:%s\n",c[i].name);
printf("Age:%d\n",c[i].age);
printf("Score in ODI:%d\n",c[i].score);
}
getch();
}

```

4. Write a program to

- Define structure **Cricket\_Team** having element player\_name, age, score\_in\_ODI.
- Declare and do Initialization the structure for 5 cricketers by taking input at run time
- Display the information of all those cricketers those score\_in\_ODI is  $\geq 100$ .

```

#include<stdio.h>
#include<conio.h>
struct cricket
{
char name[20];
int age;
long int score;
};
void main()
{
int i;
struct cricket c[5];
clrscr();
for(i=0;i<5;i++)

```

```

{
printf("Enter name of the player:");
scanf("%s",c[i].name);
printf("Enter age:");
scanf("%d",&c[i].age);
printf("Enter score in ODI:");
scanf("%ld",&c[i].score);
}
printf("Players having score above 100:\n");
for(i=0;i<5;i++)
{
if(c[i].score>=100)
{
printf("Name of the payer:%s\n",c[i].name);
printf("Age:%d\n",c[i].age);
printf("Score in ODI:%ld\n",c[i].score);
}
}
getch();
}

```

5. Write a program to

- Define the structure **Student** having member's rollno, name, address, marks.
- Declare and do Initialization of structure for 5 students by taking input at run time
- Display the information each student along with grade i.e pass or fail (marks >= 40 then pass, otherwise fail)

```

#include<stdio.h>
#include<conio.h>

```

```
struct student
{
char name[20];
char add[50];
int roll;
int marks;
};
void main()
{
struct student s[5];
int i;
clrscr();
for(i=0;i<5;i++)
{
printf("Enter name of the student:");
scanf("%s",s[i].name);
printf("Enter address:");
scanf("%s",s[i].add);
printf("Enter roll no:");
scanf("%d",&s[i].roll);
printf("Enter the marks:");
scanf("%d",&s[i].marks);
}
printf("Result\n");
for(i=0;i<5;i++)
{
if(s[i].marks>=40)
{
printf("Grade:Pass\n");
printf("Name of the student:%s\n",s[i].name);
printf("Address:%s\n",s[i].add);
```

```
printf("Roll No:%d\n",s[i].roll);
printf("Marks:%d\n",s[i].marks);
}
else
{
printf("Grade:Fail\n");
printf("Name of the student:%s\n",s[i].name);
printf("Address:%s\n",s[i].add);
printf("Roll No:%d\n",s[i].roll);
printf("Marks:%d\n",s[i].marks);
}
}
getch();
}
```