## 1.Program to take employee, his/her name, age, and salary using structure.

```
#include <stdio.h>
#include<string.h>
struct employee
{
  char name[50];
  int age;
  float salary;
};
int main()
{
  struct employee obj;
  printf("Enter the employee name: ");
  gets(obj.name);
  printf("Enter the employee age: ");
  scanf("%d",&obj.age);
  printf("Enter the employee salary: ");
  scanf("%f",&obj.salary);
  printf("\n\n\nThe name of the employee is %s. Age is %d. Salary is
%f.",obj.name,obj.age,obj.salary);
  return 0;
}
```

```
Enter the employee name: abc
Enter the employee age: 18
Enter the employee salary: 6754

The name of the employee is abc. Age is 18. Salary is 6754.000000.

...Program finished with exit code 0
Press ENTER to exit console.
```

2.Write C program to read and print the student details using structure and Static Memory Allocation.( Name, roll, Perc)

```
#include <stdio.h>
#include <string.h>
struct student
{
    char name[50];
    int roll;
    float percentage;
};
int main()
{
    struct student obj;
    printf("Enter the student name: ");
    gets(obj.name);
    printf("Enter the student roll number: ");
    scanf("%d",&obj.roll);
```

```
printf("Enter the student percentage: ");
scanf("%f",&obj.percentage);
printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj.name,obj.roll,obj.percentage);
return 0;
}
```

```
Enter the student name: Anurag Kumar Jha
Enter the student roll number: 128
Enter the student percentage: 80.54

The name of the student is Anurag Kumar Jha. Roll number is 128. Percentage is 80.54

...Program finished with exit code 0
Press ENTER to exit console.
```

3.Write C program to read and print the 3 student details using array of structures (Name, roll, Perc)

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

#include <string.h>

struct student
{
    char name[50];
    int roll;
    float percentage;
```

```
};
int main()
{
    struct student obj;
    printf("Enter the student name: ");
    gets(obj.name);
    printf("Enter the student roll number: ");
    scanf("%d",&obj.roll);
    printf("Enter the student percentage: ");
    scanf("%f",&obj.percentage);
    printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj.name,obj.roll,obj.percentage);
    return 0;
}
```

```
Enter details for student number 1:
Enter the student name: abc
Enter the student roll number: 56
Enter the student percentage: 12.35
Enter details for student number 2:
Enter the student name: bhj
Enter the student roll number: 78
Enter the student percentage: 56.25
Enter details for student number 3:
Enter the student name: kjh
Enter the student roll number: 789
Enter the student percentage: 56
Detalis for student 1
The name of the student is bc. Roll number is 56. Percentage is 12.35
Detalis for student 2
The name of the student is bhj. Roll number is 78. Percentage is 56.25
The name of the student is kjh. Roll number is 789. Percentage is 56.00
...Program finished with exit code 0
Press ENTER to exit console.
```

4. Write C program to read and print employee, his/her name, age, and salary using pointer to the structures.

```
#include <stdio.h>
#include<string.h>
struct student
{
  char name[50];
  int roll;
  float percentage;
};
int main()
{
  struct student abc;
  struct student *obj;
  obj=&abc;
  printf("Enter the student name: ");
  gets(obj->name);
  printf("Enter the student roll number: ");
  scanf("%d",&obj->roll);
  printf("Enter the student percentage: ");
  scanf("%f",&obj->percentage);
  printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is
%0.2f%",obj->name,obj->roll,obj->percentage);
  return 0;
```

}

## **OUTPUT:**

```
Enter the student name: abv

Enter the student roll number: 87

Enter the student percentage: 12.54

The name of the student is abv. Roll number is 87. Percentage is 12.54

...Program finished with exit code 0

Press ENTER to exit console.
```

5. Write C program to read and print the student details using structure and Dynamic Memory Allocation.( Name, roll, Perc)

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

typedef struct
{
    char name[50];
    int roll;
    float percentage;
}student;
int main()
{
    student *obj=(student *) malloc(sizeof(student));
    printf("Enter the student name: ");
```

```
gets(obj->name);
printf("Enter the student roll number: ");
scanf("%d",&obj->roll);
printf("Enter the student percentage: ");
scanf("%f",&obj->percentage);
printf("\n\n\nThe name of the student is %s. Roll number is %d. Percentage is %0.2f%",obj->name,obj->roll,obj->percentage);
return 0;
}
```

```
Enter the student name: bhj
Enter the student roll number: 56
Enter the student percentage: 56

The name of the student is bhj. Roll number is 56. Percentage is 56.00

...Program finished with exit code 0

Press ENTER to exit console.
```

6. Write C program to read and print the N student details using structure and Dynamic Memory Allocation. (Name, roll, Perc)

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

```
typedef struct
  char name[50];
  int roll;
  float percentage;
}student;
int main()
{
  int n;
  printf("Enter the number of students: ");
  scanf("%d",&n);
  student *obj=(student *) malloc(n*sizeof(student));
  for(int i=1;i<=n;i++)
  {
     printf("\n\nEnter details for student number %d:\n",i);
     printf("Enter the student name: ");
     getchar();
     gets(obj[i-1].name);
     printf("Enter the student roll number: ");
     scanf("%d",&obj[i-1].roll);
     printf("Enter the student percentage: ");
     scanf("%f",&obj[i-1].percentage);
   }
  for(int i=1;i <= n;i++)
     printf("\n\nDetalis for student %d",i);
     printf("\nThe name of the student is %s. Roll number is %d. Percentage is
%0.2f%",obj[i-1].name,obj[i-1].roll,obj[i-1].percentage);
```

```
}
return 0;
}
```

```
Enter the number of students: 4
Enter details for student number 1:
Enter the student name: abc
Enter the student roll number: 1
Enter the student percentage: 60
Enter details for student number 2:
Enter the student name: def
Enter the student roll number: 2
Enter the student percentage: 65
Enter details for student number 3:
Enter the student name: ghi
Enter the student roll number: 3
Enter the student percentage: 70
Enter details for student number 4:
Enter the student name: jkl
Enter the student roll number: 4
Enter the student percentage: 75
Detalis for student 1
The name of the student is abc. Roll number is 1. Percentage is 60.00
Detalis for student 2
The name of the student is def. Roll number is 2. Percentage is 65.00
Detalis for student 3
The name of the student is qhi. Roll number is 3. Percentage is 70.00
Detalis for student 4
The name of the student is jkl. Roll number is 4. Percentage is 75.00
...Program finished with exit code 0
Press ENTER to exit console.
```