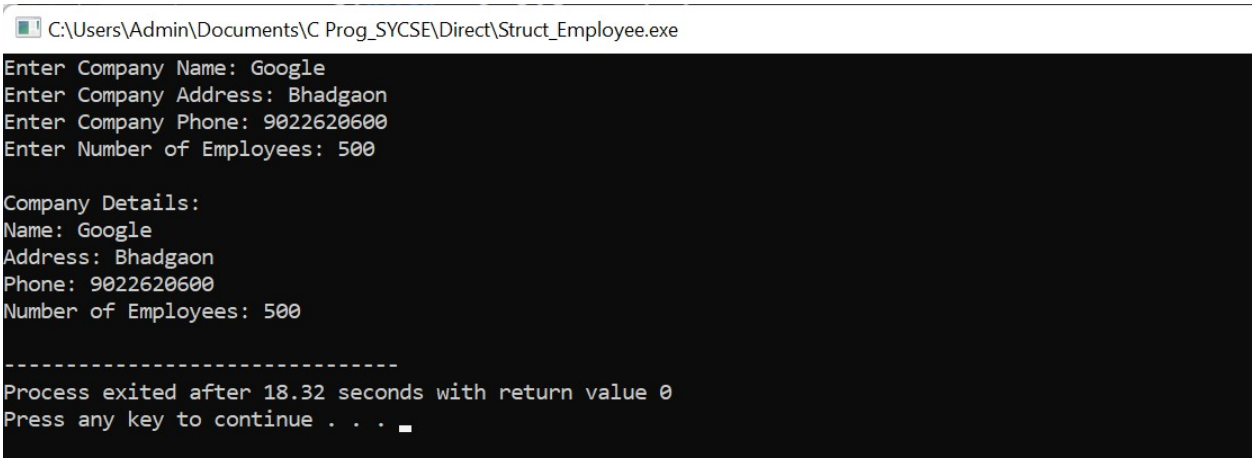
Practical No 6

- Program 1 : Write a program to create a structure named company which has name, address, phone and noOfEmployee. Finally display it

```
//Name : Rakesh Mahadev Bandi
//Roll No : 3
//Class : SYCSE
//PRN No : 2024065738

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

struct company
{
   char name[50];
   char address[100];
   char phone[50];
   int noOfEmployee;
};

int main()
{
   struct company c;

   printf("Enter Company Name: ");
   scanf("%s", &c.name);

   printf("Enter Company Address: ");
        scanf("%s", &c.address);

   printf("Enter Company Phone: ");
        scanf("%s", &c.phone);

   printf("Enter Number of Employees: ");
   scanf("%d", &c.noOfEmployee);
```

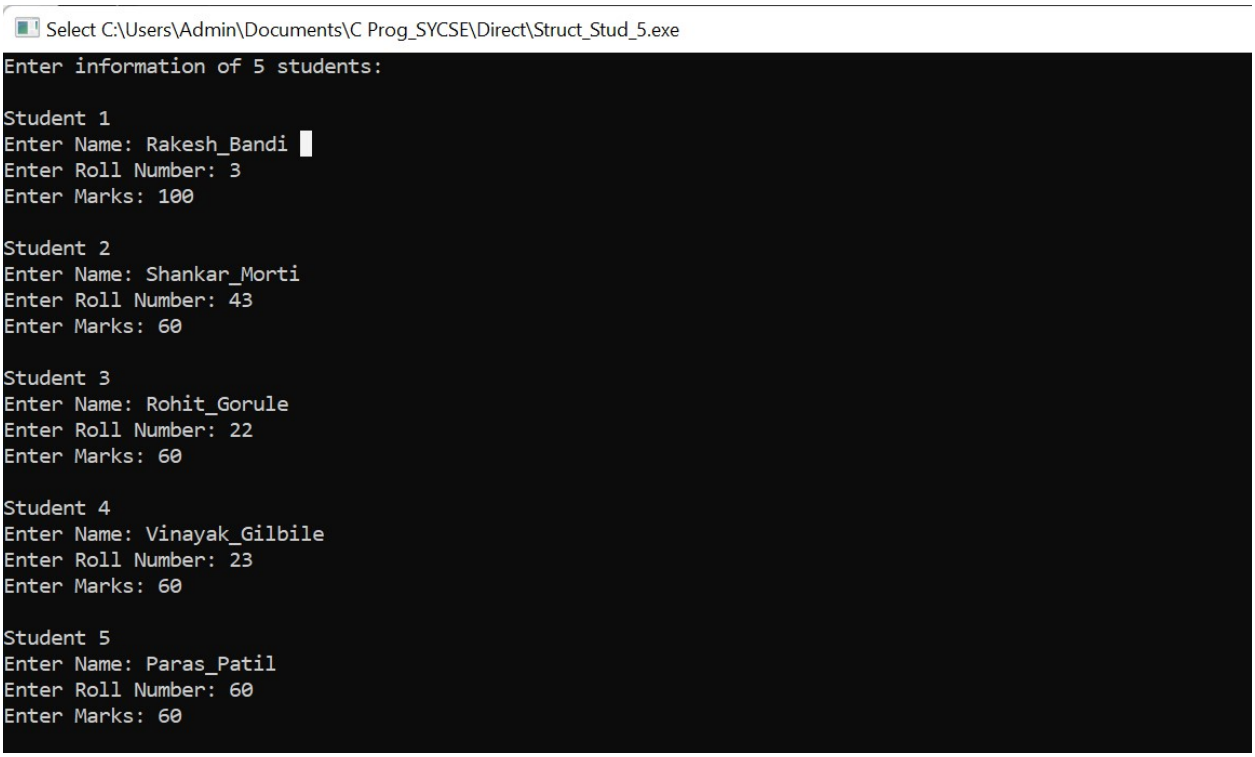
```
    printf("\nCompany Details:\n");
    printf("Name: %s\n", c.name);
    printf("Address: %s\n", c.address);
    printf("Phone: %s\n", c.phone);
    printf("Number of Employees: %d\n", c.noOfEmployee);

    return 0;
}
```

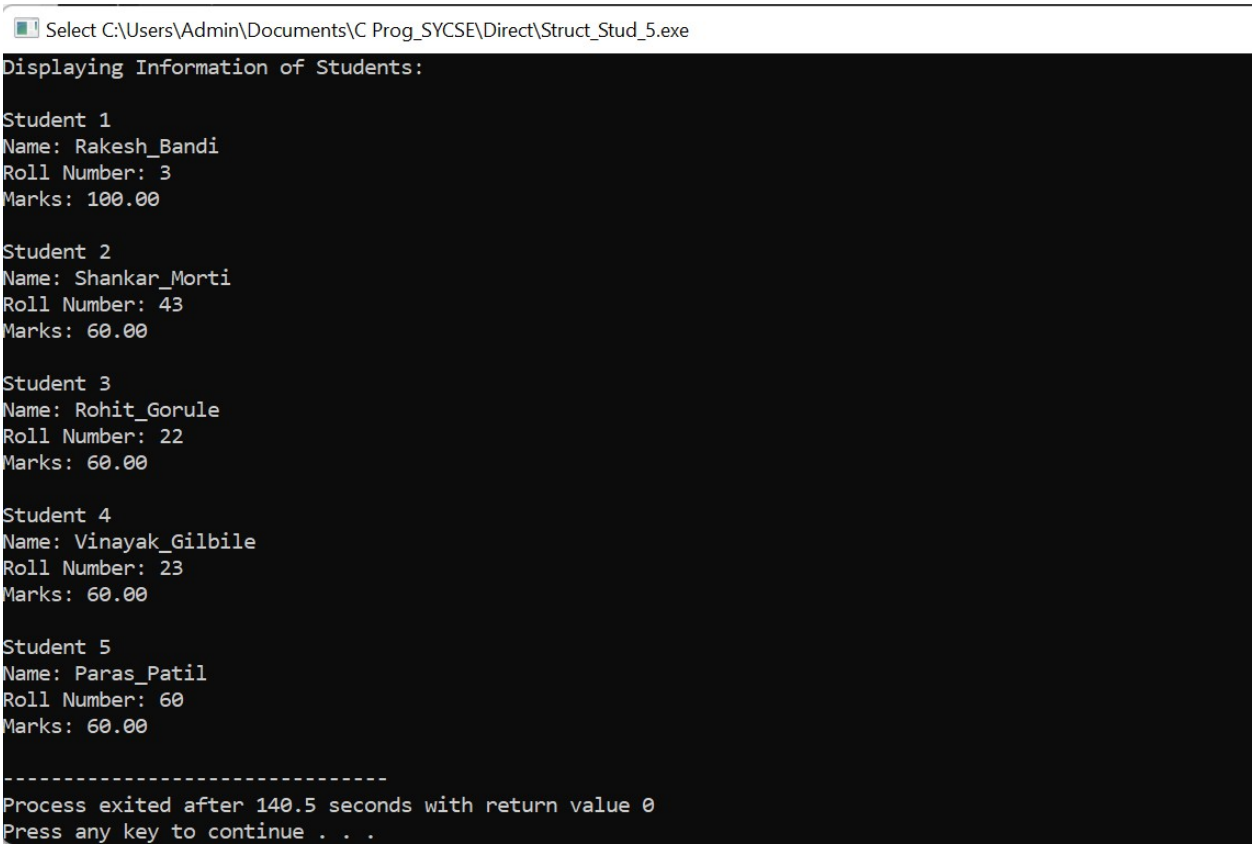


- Program 2 : write a program to store information of 5 students in a structure and display it

```
//Name : Rakesh Mahadev Bandi
//Roll No : 3
//Class : SYCSE
//PRN No : 2024065738

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

struct student
{
   char name[50];
   int rollNumber;
   float marks;
};

int main()
{
        int i;
   struct student s[5];

   printf("Enter information of 5 students:\n");

   for (i=0;i<5;i++)
        {
      printf("\nStudent %d\n", i + 1);

      printf("Enter Name: ");
      scanf("%s", s[i].name);

      printf("Enter Roll Number: ");
      scanf("%d", &s[i].rollNumber);

      printf("Enter Marks: ");
      scanf("%f", &s[i].marks);
   }
```

```
    printf("\nDisplaying Information of Students:\n");

    for (i=0;i<5;i++)
        {
        printf("\nStudent %d\n", i + 1);
        printf("Name: %s\n", s[i].name);
        printf("Roll Number: %d\n", s[i].rollNumber);
        printf("Marks: %.2f\n", s[i].marks);
    }

    return 0;
}
```

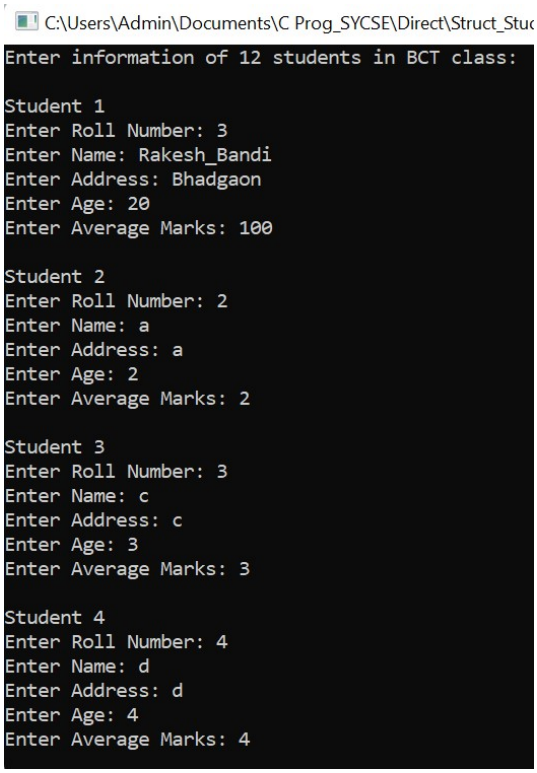


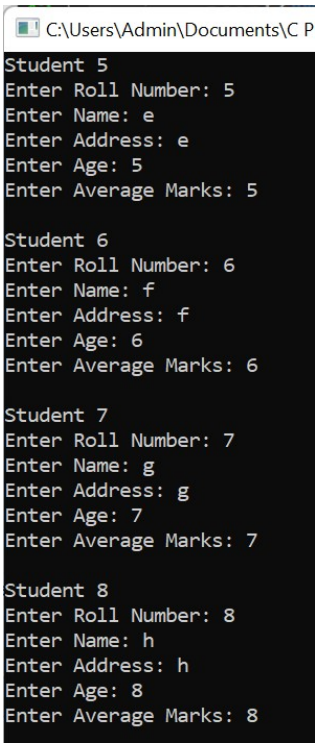

Select C:\Users\Admin\Documents\C Prog_SYCSE\Direct\Struct_Stud_5.exe
Displaying Information of Students:
Student 1
Name: Rakesh_Bandi
Roll Number: 3
Marks: 100.00
Student 2
Name: Shankar_Morti
Roll Number: 43
Marks: 60.00
Student 3
Name: Rohit_Gorule
Roll Number: 22
Marks: 60.00
Student 4
Name: Vinayak_Gilbile
Roll Number: 23
Marks: 60.00
Student 5
Name: Paras_Patil
Roll Number: 60
Marks: 60.00
Process exited after 140.5 seconds with return value 0
Press any key to continue . . .

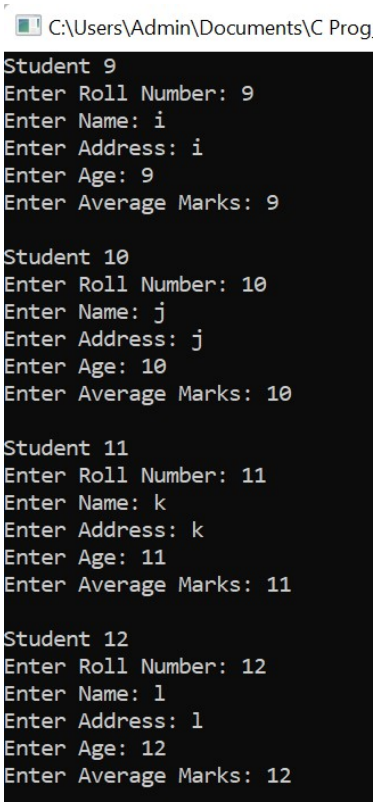
- Program 3 : Write a program to read roll, name, address, age and avg_marks of 12 students in BCT class and display the details from function

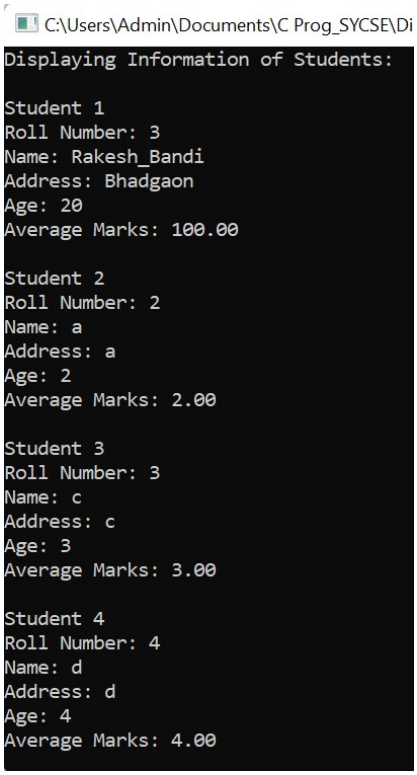
```
//Name : Rakesh Mahadev Bandi
//Roll No : 3
//Class : SYCSE
//PRN No : 2024065738

#include <stdio.h>

struct student {
   int roll;
   char name[50];
   char address[100];
   int age;
   float avg_marks;
};

void stud(struct student s[], int count)
{
        int i;
   printf("\nDisplaying Information of Students:\n");

   for (i=0;i<count;i++)
        {
      printf("\nStudent %d\n", i + 1);
      printf("Roll Number: %d\n", s[i].roll);
      printf("Name: %s\n", s[i].name);
      printf("Address: %s\n", s[i].address);
      printf("Age: %d\n", s[i].age);
      printf("Average Marks: %.2f\n", s[i].avg_marks);
   }
}

int main()
{
        int i;
   struct student s[12];
```

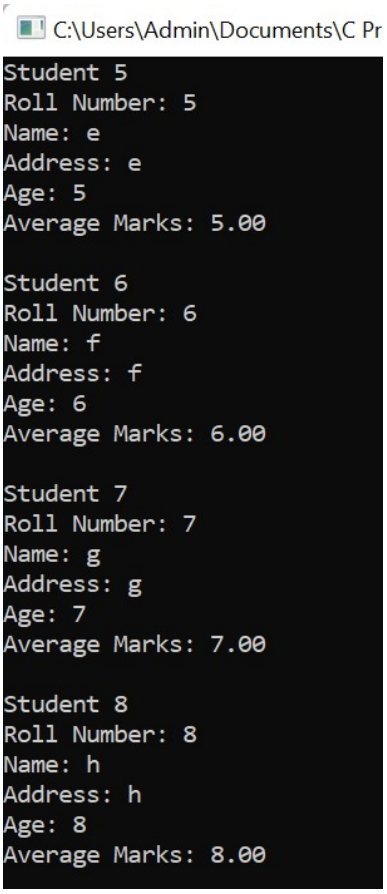
```
    printf("Enter information of 12 students in BCT class:\n");
    for (i=0;i<12;i++)
          {
        printf("\nStudent %d\n", i + 1);

        printf("Enter Roll Number: ");
        scanf("%d", &s[i].roll);

        printf("Enter Name: ");
        scanf("%s", &s[i].name);

        printf("Enter Address: ");
        scanf("%s", &s[i].address);

        printf("Enter Age: ");
        scanf("%d", &s[i].age);

        printf("Enter Average Marks: ");
        scanf("%f", &s[i].avg_marks);
    }

    stud(s, 12);

    return 0;
}

}
```

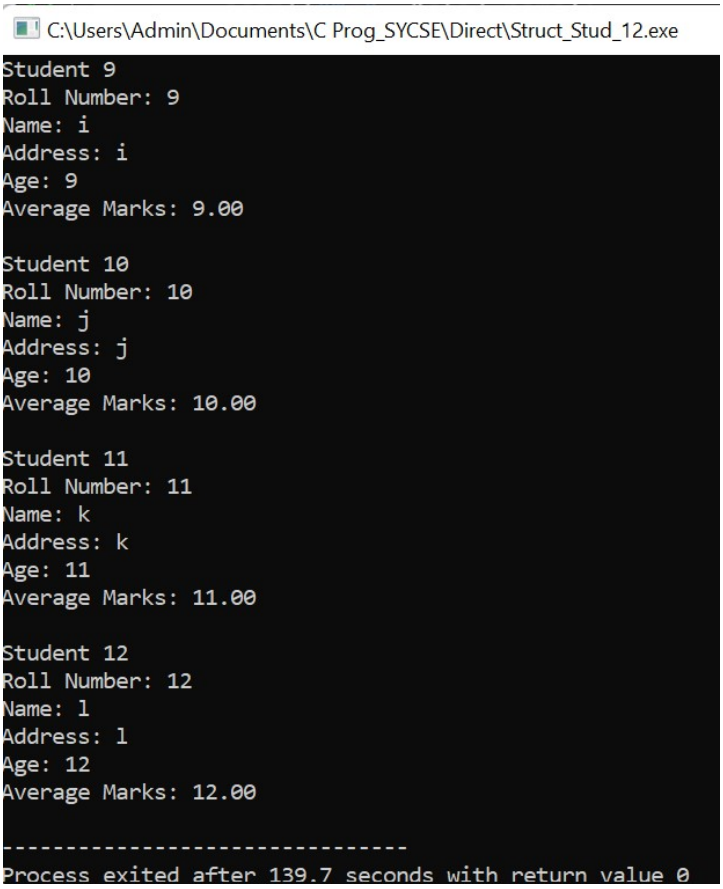

C:\Users\Admin\Documents\C Prog_SYCSE\Direct\Struct_Stuc
Enter information of 12 students in BCT class:
Student 1
Enter Roll Number: 3
Enter Name: Rakesh_Bandi
Enter Address: Bhadgaon
Enter Age: 20
Enter Average Marks: 100
Student 2
Enter Roll Number: 2
Enter Name: a
Enter Address: a
Enter Age: 2
Enter Average Marks: 2
Student 3
Enter Roll Number: 3
Enter Name: c
Enter Address: c
Enter Age: 3
Enter Average Marks: 3
Student 4
Enter Roll Number: 4
Enter Name: d
Enter Address: d
Enter Age: 4
Enter Average Marks: 4


C:\Users\Admin\Documents\C P
Student 5
Enter Roll Number: 5
Enter Name: e
Enter Address: e
Enter Age: 5
Enter Average Marks: 5
Student 6
Enter Roll Number: 6
Enter Name: f
Enter Address: f
Enter Age: 6
Enter Average Marks: 6
Student 7
Enter Roll Number: 7
Enter Name: g
Enter Address: g
Enter Age: 7
Enter Average Marks: 7
Student 8
Enter Roll Number: 8
Enter Name: h
Enter Address: h
Enter Age: 8
Enter Average Marks: 8


C:\Users\Admin\Documents\C Prog
Student 9
Enter Roll Number: 9
Enter Name: i
Enter Address: i
Enter Age: 9
Enter Average Marks: 9
Student 10
Enter Roll Number: 10
Enter Name: j
Enter Address: j
Enter Age: 10
Enter Average Marks: 10
Student 11
Enter Roll Number: 11
Enter Name: k
Enter Address: k
Enter Age: 11
Enter Average Marks: 11
Student 12
Enter Roll Number: 12
Enter Name: l
Enter Address: l
Enter Age: 12
Enter Average Marks: 12


C:\Users\Admin\Documents\C Prog_SYCSE\Di
Displaying Information of Students:
Student 1
Roll Number: 3
Name: Rakesh_Bandi
Address: Bhadgaon
Age: 20
Average Marks: 100.00
Student 2
Roll Number: 2
Name: a
Address: a
Age: 2
Average Marks: 2.00
Student 3
Roll Number: 3
Name: c
Address: c
Age: 3
Average Marks: 3.00
Student 4
Roll Number: 4
Name: d
Address: d
Age: 4
Average Marks: 4.00


C:\Users\Admin\Documents\C Pr
Student 5
Roll Number: 5
Name: e
Address: e
Age: 5
Average Marks: 5.00
Student 6
Roll Number: 6
Name: f
Address: f
Age: 6
Average Marks: 6.00
Student 7
Roll Number: 7
Name: g
Address: g
Age: 7
Average Marks: 7.00
Student 8
Roll Number: 8
Name: h
Address: h
Age: 8
Average Marks: 8.00


C:\Users\Admin\Documents\C Prog_SYCSE\Direct\Struct_Stud_12.exe
Student 9
Roll Number: 9
Name: i
Address: i
Age: 9
Average Marks: 9.00
Student 10
Roll Number: 10
Name: j
Address: j
Age: 10
Average Marks: 10.00
Student 11
Roll Number: 11
Name: k
Address: k
Age: 11
Average Marks: 11.00
Student 12
Roll Number: 12
Name: l
Address: l
Age: 12
Average Marks: 12.00

Process exited after 139.7 seconds with return value 0

- Program 4 : Write a program to read and print an employee's details using structure

```
//Name : Rakesh Mahadev Bandi
//Roll No : 3
//Class : SYCSE
//PRN No : 2024065738

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

struct employee
{
   int id;
   char name[50];
   char position[50];
   float salary;
   int age;
};

int main()
{
   struct employee e;

   printf("Enter Employee ID: ");
   scanf("%d", &e.id);

   printf("Enter Employee Name: ");
   scanf("%s", &e.name);

   printf("Enter Position: ");
   scanf("%s", &e.position);

   printf("Enter Salary: ");
   scanf("%f", &e.salary);

   printf("Enter Age: ");
   scanf("%d", &e.age);
```

```
    printf("\nEmployee Details:\n");
    printf("ID: %d\n", e.id);
    printf("Name: %s\n", e.name);
    printf("Position: %s\n", e.position);
    printf("Salary: %.2f\n", e.salary);
    printf("Age: %d\n", e.age);

    return 0;
}
```