```
Q1
```

```
#include<stdio.h>
struct details{
  char name[30];
  int number;
  float CGPI;
};
int main(){
  printf("Aaryan Sharma\n");
  printf("16010123012\n");
  struct details s1={"Aaryan",12,8.5};
  printf("Name: %s\n",s1.name);
  printf("Roll number : %d \n",s1.number);
  printf("CGPI: %f\n",s1.CGPI);
  struct details s2;
  printf("\nName : ");
  scanf("%s",s2.name);
  printf("Roll number : ");
  scanf("%d",&s2.number);
  printf("CGPI:");
  scanf("%f",&s2.CGPI);
  printf("\nStudent Details");
  printf("\nName : %s",s2.name);
  printf("\nRoll number : %d ",s2.number);
  printf("\nCGPI: %f",s2.CGPI);
  return 0;
}
```

Output

Aaryan Sharma
16010123012
Name : Aaryan
Roll number : 12
CGPI : 8.500000

Name : aar
Roll number : 87
CGPI : 4.97

Student Details
Name : aar
Roll number : 87
CGPI : 4.970000
Process returned 0 (0x0) execution time : 9.352 s

Aaryan Sharma
16010123012
Name : Aaryan
Roll number : 12
CGPI : 8.500000
Name : sdfs

Roll number : 87654

CGPI : 3.5426

Student Details Name : sdfs Poll number : 876

Roll number : 87654 CGPI : 3.542600

Process returned 0 (0x0) execution time : 9.437 s

Aaryan Sharma 16010123012 Name : Aaryan Roll number : 12 CGPI : 8.500000

Name : riya Roll number : 01 CGPI : 9.9

Student Details Name : riya Roll number : 1 CGPI : 9.900000

Process returned 0 (0x0) execution time: 7.808 s

```
#include<stdio.h>
struct details{
  char name[30];
  int ID;
  float Exp;
};
int main(){
  printf("Aaryan Sharma\n");
  printf("16010123012\n");
  struct details e1={"Jay",10012,2.3};
  printf("Name : %s\n",e1.name);
  printf("ID: %d n,e1.ID);
  printf("Years of experience : %f\n",e1.Exp);
  struct details e2;
  printf("\nName:");
  scanf("%s",e2.name);
  printf("ID : ");
  scanf("%d",&e1.ID);
  printf("Years of experience : ");
  scanf("%f",&e2.Exp);
  printf("\nEmployee Details");
  printf("\nName : %s",e2.name);
  printf("\nID : %d ",e2.ID);
  printf("\nYears of experience : %f",e2.Exp);
  return 0;
}
```

Output

```
Aaryan Sharma
16010123012
Name : Jay
ID: 10012
Years of experience: 2.300000
Name : raj
ID: 10023
Years of experience: 4.5
Employee Details
Name : raj
ID : 0
Years of experience : 4.500000
Process returned 0 (0x0) execution time : 11.387 s
Aaryan Sharma
16010123012
Name : Jay
ID: 10012
Years of experience: 2.300000
Name : riya
ID: 20031
Years of experience: 6.8
Employee Details
Name : riya
ID : 0
Years of experience : 6.800000
Process returned 0 (0x0) execution time : 10.269 s
Q3
#include<stdio.h>
struct car{
char name[30];
int num;
};
int cars(struct car arr car[],int n){
 int i;
 for(i=0;i<n;i++){
```

```
printf("Car Name %d:",i+1);
  scanf("%s",&arr_car[i].name);
  printf("Car number %d:",i+1);
  scanf("%d",&arr_car[i].num);
}
}
int display(struct car arr_car[],int n){
  int i;
  for(i=0;i<n;i++){
    printf("\n %s %d",arr_car[i].name,arr_car[i].num);
  }
}
int main(){
  printf("Aaryan Sharma\n");
  printf("16010123012\n");
  int x;
  printf("Enter value for x : ");
  scanf("%d",&x);
  struct car arr_car[x];
  cars(arr_car,x);
  display(arr_car,x);
  return 0;
}
```

Output

```
Aaryan Sharma
16010123012
Enter value for x : 5
Car Name 1:Rr
Car number 1:23
Car Name 2:lambo
Car number 2:38
Car Name 3:volo
Car number 3:12
Car Name 4:nano
Car number 4:2
Car Name 5:ferrari
Car number 5:9
 Rr 23
 lambo 38
 volo 12
 nano 2
ferrari 9
Process returned 0 (0x0) execution time : 36.455 s
Press any key to continue.
```