```cpp
#include<iostream>
#include<string.h>
using namespace std;

typedef struct student
{
    int roll_num;
    char name [10];
    float marks;
}s;

void bubble_sort(s student[10],int n)
{
    int i,j;
    s temp;
    for(i=1;i<n;i++)
    {
        for(j=0;j<n-i;j++)
        {
            if(student[j].roll_num>student[j+1].roll_num)
            {
                temp=student[j];
                student[j]=student[j+1];
                student[j+1]=temp;
            }
        }
    }
}

int main()
{
    s student[10];
    int choice,n;;
    do
    {
        cout<<"\nEnter your choice:"
            "\n1. Create database"
            "\n2. Display database"
            "\n3. Bubble sort(according to roll number)"
            "\n4. Exit "
            "\n Choice:";
        cin>>choice;
        switch(choice)
        {
            case 1:
            {
                cout<<"\nEnter number of records:";
                cin>>n;
                for(int i=0;i<n;i++)
                {
                    cout<<"\nEnter roll number:";
                    cin>>student[i].roll_num;
                    cout<<"\nEnter name:";
                    cin>>student[i].name;
                    cout<<"\nEnter marks:";
                    cin>>student[i].marks;
                }
                break;
            }
            case 2:
            {
                cout<<"\n\tRoll number\tName\tMarks";
                for(int i=0;i<n;i++)
                {
                    cout<<"\n\t"<<student[i].roll_num<<"\t"<<student[i].name<<"\t"<<student[i].marks;
                }
                break;
            }
            case 3:
            {
                bubble_sort(student,n);
                cout<<"\n\tRoll number\tName\tMarks";
```

```
                for(int i=0;i<n;i++)
                {
                    cout<<"\n\t"<<student[i].roll_num<<"\t"<<student[i].name<<"\t"<<student[i].marks;
                }
                break;
            }
            case 4:
            {
                break;
            }
        }
    }while(choice!=4);
    return 0;
}==============================//Output//=========================================


student@student-OptiPlex-380:~$ g++ bubblesort.cpp
student@student-OptiPlex-380:~$ ./a.out

1. Create database
2. Display database
3. Bubble sort(according to roll number)
4. Exit
Enter your choice:1

Enter number of records:2

Enter roll number:21

Enter name:ak

Enter marks:85

Enter roll number:19

Enter name:yb

Enter marks:92

1. Create database
2. Display database
3. Bubble sort(according to roll number)
4. Exit
Enter your choice:2

        Roll number     Name    Marks
        21              ak      85
        19              yb      92
1. Create database
2. Display database
3. Bubble sort(according to roll number)
4. Exit
Enter your choice:3

        Roll number     Name    Marks
        19              yb      92
        21              ak      85
1. Create database
2. Display database
3. Bubble sort(according to roll number)
4. Exit
Enter your choice:4
student@student-OptiPlex-380:~$
```