

Working with Collections and LINQ - Task 4

Program to create a student management console application, with filtered and sorted results :

```
using System.Collections.Generic;
using System;
using System.Linq;

public class Student
{
    public string name;
    public int grade;
    public int age;

    public static void Main(string[] args)
    {
        var students = new List<Student>{
            new Student{name="Ram",grade=92,age=17},
            new Student{name="Gita",grade=88,age=16},
            new Student{name="Navin",grade=85,age=16},
            new Student{name="Riya",grade=96,age=16}
        };

        var stulist =
            from student in students
            where student.grade>90
            select student;

        foreach (var student in stulist){
            Console.WriteLine($"{student.name} - Grade: {student.grade}, Age: {student.age}");
        }

        var orderByGradeDesc = stulist.OrderByDescending(x=>x.grade);
        Console.WriteLine("\nStudents ordered by grade (desc):");
        foreach (var student in orderByGradeDesc)
        {
            Console.WriteLine($"{student.name} - Grade: {student.grade}, Age: {student.age}");
        }
    }
}
```

Output :

```
Ram - Grade: 92, Age: 17  
Riya - Grade: 96, Age: 16
```

```
Students ordered by grade (desc):  
Riya - Grade: 96, Age: 16  
Ram - Grade: 92, Age: 17
```