

eclipse-workspace - StudentManagementSystem/src/StudentManagementSystem/StudentManager.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- StudentManagementSystem [Stude
- JRE System Library [JavaSE-17]
- src
 - StudentManagementSystem
 - Main.java
 - Student.java
 - StudentManager.java
 - Students.txt

StudentManager.java

```
1 package StudentManagementSystem;
2
3 import java.io.BufferedReader;
15
16 public class StudentManager {
17     private List<Student> students;
18     private String filename;
19 }
```

Task List

Outline

Problems Javadoc Declaration Console

<terminated> Main [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Nov 17, 2024, 6:32:39 PM - 6:38:30 PM) [pid: 9524]

```
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 7
Students (Ascending order by RollNo)
Roll No: 103, Name: vasanth, Course: java
Roll No: 105, Name: alias, Course: java
Roll No: 106, Name: malai, Course: java

Student Management System
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 8
Are you sure you want to exit? (yes/no): yes
Exiting...
```

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Console

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5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 7
Students (Ascending order by RollNo)
Roll No: 105, Name: vasanth, Course: java
Roll No: 106, Name: alias, Course: java
Roll No: 106, Name: malai, Course: java

Student Management System
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice:
```

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2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 6
Students (Ascending order by Name)
Roll No: 105, Name: alias, Course: java
Roll No: 106, Name: malai, Course: java
Roll No: 103, Name: vasanth, Course: java

Student Management System
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice:
```

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```
Student Management System
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4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 9
Total number of students: 3
Number of students per course:
java: 3

Student Management System
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice:
```

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eclipse-workspace - StudentManagementSystem/src/StudentManagementSystem/Students.txt - Eclipse IDE

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- StudentManagementSystem [Stude
- > JRE System Library [JavaSE-17]
- > src
- > StudentManagementSystem
- > Main.java
- > Student.java
- > StudentManager.java
- Students.txt

Students.txt

```
1 103,vasanth, java
2
```

Task List

Outline

There is no active editor that

Problems @ Javadoc Declaration Console

Main [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Nov 17, 2024, 6:32:39 PM) [pid: 9524]

```
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 5
Enter roll number to update: 103
Enter new name: vasanth
Enter new course: java
Student data saved successfully.

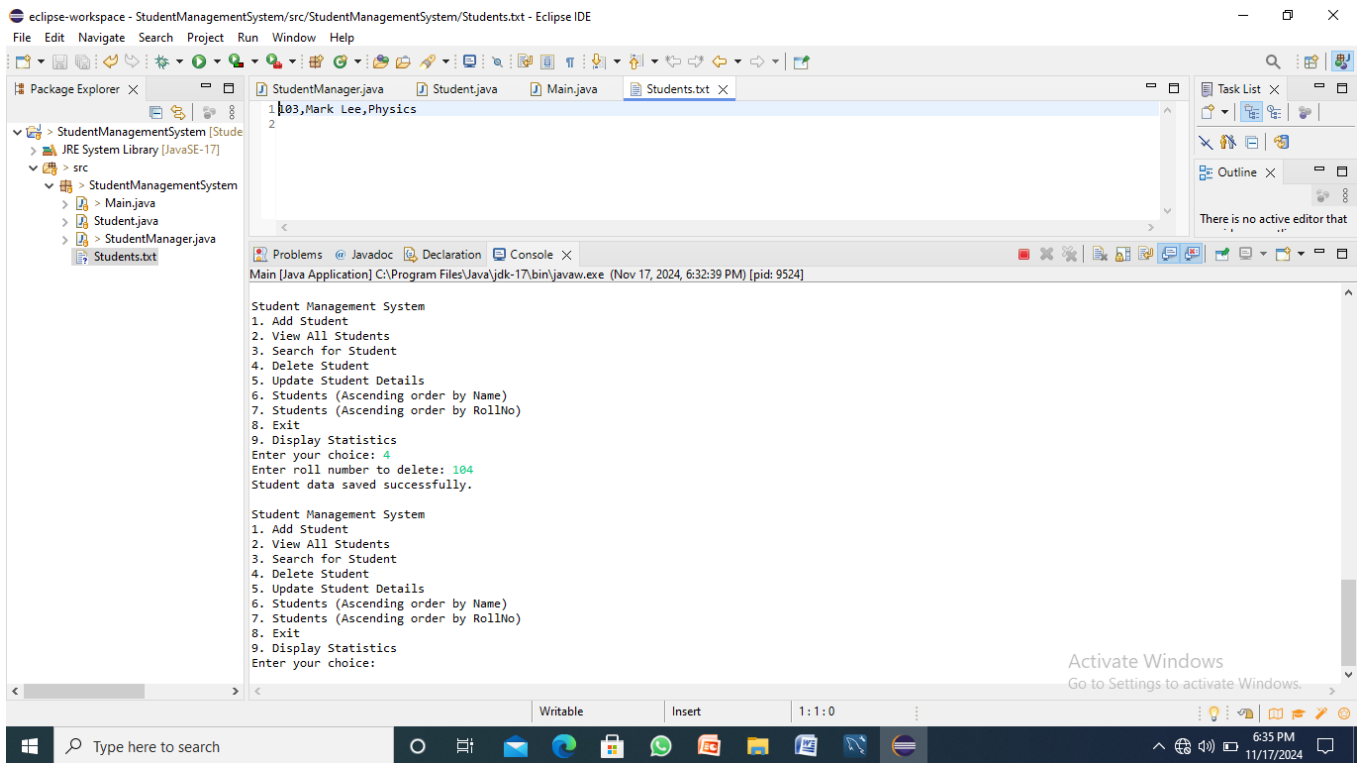
Student Management System
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice:
```

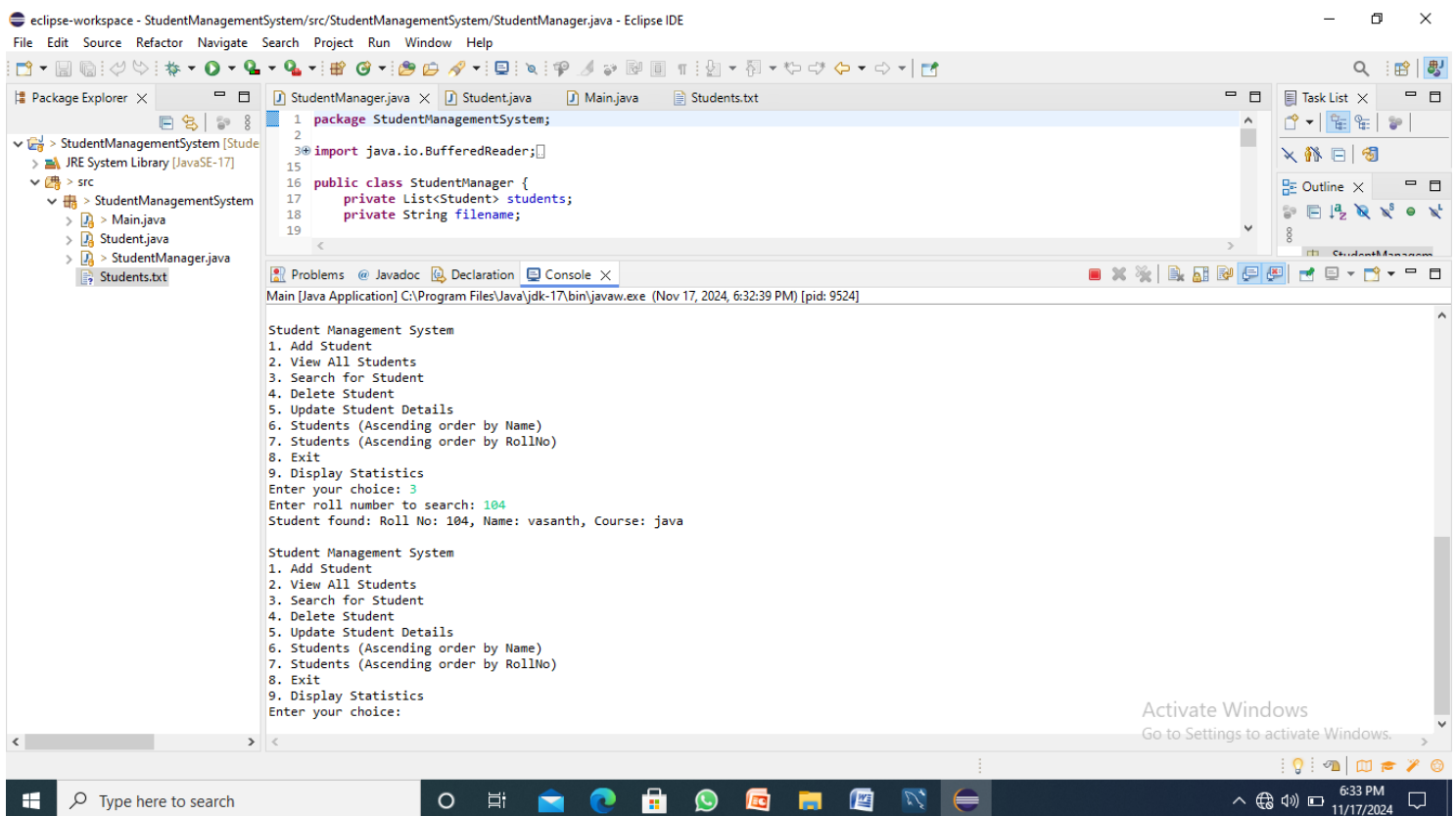
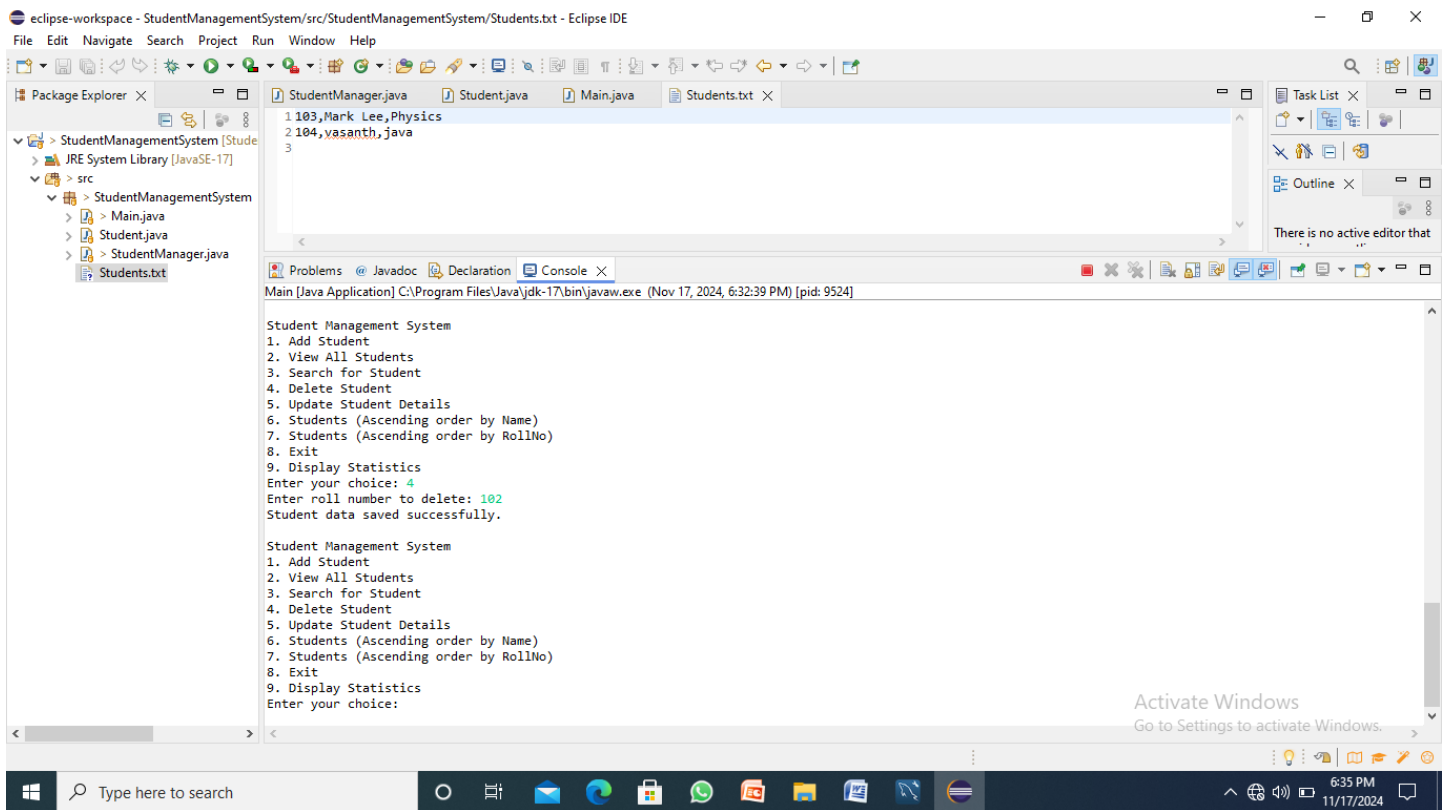
Activate Windows
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Writable Insert 1:1:0

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16 public class StudentManager {
17     private List<Student> students;
18     private String filename;
19 }
```

Problems @ Javadoc Declaration Console

Main [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Nov 17, 2024, 6:32:39 PM) [pid: 9524]

```
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice: 2
Roll No: 101, Name: John Doe, Course: Computer Science
Roll No: 102, Name: Jane Smith, Course: Mathematics
Roll No: 103, Name: Mark Lee, Course: Physics
Roll No: 104, Name: vasanth, Course: java

Student Management System
1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics
Enter your choice:
```

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1 package StudentManagementSystem;
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3 import java.io.BufferedReader;
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9
10
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12
13
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15
16 public class StudentManager {
17     private List<Student> students;
18     private String filename;
19 }
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Task List

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Problems @ Javadoc Declaration Console

Main [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Nov 17, 2024, 6:32:39 PM) [pid: 9524]

Student data loaded successfully.

Student Management System

1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit
9. Display Statistics

Enter your choice: 1

Enter student name: vasanth

Enter roll number: 104

Enter course: java

Student data saved successfully.

Student Management System

1. Add Student
2. View All Students
3. Search for Student
4. Delete Student
5. Update Student Details
6. Students (Ascending order by Name)
7. Students (Ascending order by RollNo)
8. Exit

Activate Windows
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The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure: StudentManagementSystem [StudentManagementSystem] > JRE System Library [JavaSE-17] > src > StudentManagementSystem > StudentManager.java. The main editor window shows the code for StudentManager.java. The code defines a package, imports java.io.BufferedReader, and a public class StudentManager with private attributes List<Student> students and String filename. It includes a constructor, a loadStudentsFromFile() method, and a loadStudentsFromFile() method. The console at the bottom shows the output: Student data loaded successfully.

```
1 package StudentManagementSystem;
2
3 import java.io.BufferedReader;
4
5
6
7
8
9
10
11
12
13
14
15
16 public class StudentManager {
17     private List<Student> students;
18     private String filename;
19
20     public StudentManager(String filename) {
21         this.students = new ArrayList<>();
22         this.filename = filename;
23         loadStudentsFromFile();
24     }
25
26
27     public void loadStudentsFromFile() {
28         try (BufferedReader br = new BufferedReader(new FileReader(filename))) {
29             String line;
30             while ((line = br.readLine()) != null) {
31                 String[] parts = line.split(",");
32                 if (parts.length == 3) {
33                     String name = parts[1].trim();
34                     int rollNo = Integer.parseInt(parts[0].trim());
35                     String course = parts[2].trim();
36                     students.add(new Student(name, rollNo, course));
37                 }
38             }
39             System.out.println("Student data loaded successfully.");
40         } catch (FileNotFoundException e) {
41             System.out.println("File not found. Starting with an empty student list.");
42         } catch (IOException e) {
43             System.out.println("Error reading file: " + e.getMessage());
44         }
45     }
46 }
```

Console Output:

```
Main [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Nov 17, 2024, 6:31:00 PM) [pid: 8444]
Student data loaded successfully.
```

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