Main.j... Output

```java
import java.util.ArrayList;
import java.util.Scanner;

class Student {
    private int id;
    private String name;
    private double marks;

    public Student(int id, String name
        , double marks) {
        this.id = id;
        this.name = name;
        this.marks = marks;
    }

    public int getId() {
        return id;
    }

    public String getName() {
        return name;
    }

    public double getMarks() {
        return marks;
    }

    public void setName(String name) {
        this.name = name;
    }
```

Run

Main.j... Output

```
29      }
30
31      public void setMarks(double marks)
            {
32          this.marks = marks;
33      }
34
35      public String toString() {
36          return "ID: " + id + ", Name:
                " + name + ", Marks: " +
                marks;
37      }
38  }
39
40  public class Main {
41
42      static ArrayList<Student> students
            = new ArrayList<>();
43      static Scanner sc = new Scanner
            (System.in);
44
45      public static void main(String[]
            args) {
46
47          while (true) {
48              System.out.println("\n
                    ===== Student Record
                    Management System
                    =====");
49              System.out.println("1. Add
```

Run

Main.j... Output

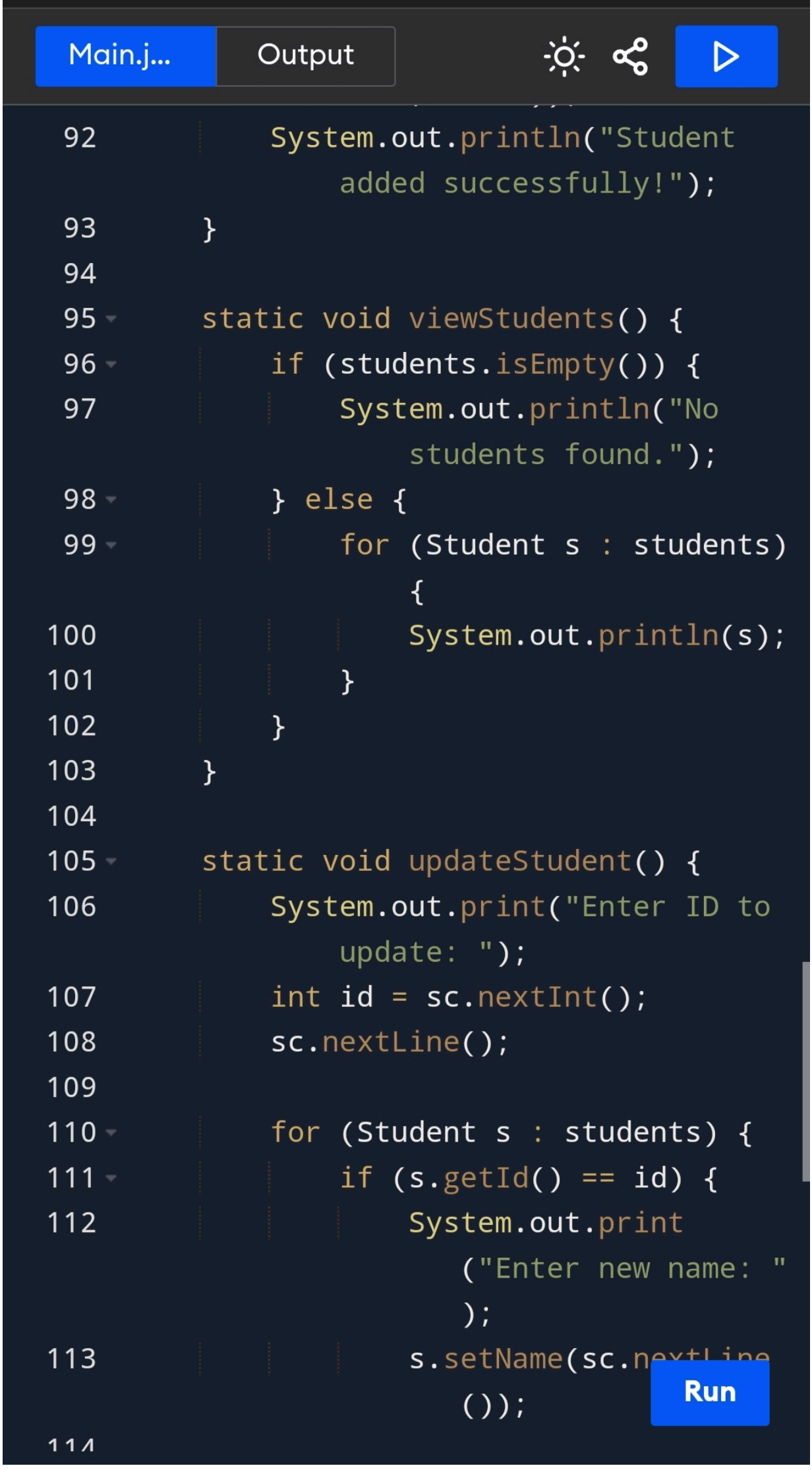
```
49              System.out.println("1. Add
                    Student");
50              System.out.println("2.
                    View Students");
51              System.out.println("3.
                    Update Student");
52              System.out.println("4.
                    Delete Student");
53              System.out.println("5.
                    Exit");
54              System.out.print("Enter
                    your choice: ");
55
56              int choice = sc.nextInt();
57
58              switch (choice) {
59                  case 1:
60                      addStudent();
61                      break;
62                  case 2:
63                      viewStudents();
64                      break;
65                  case 3:
66                      updateStudent();
67                      break;
68                  case 4:
69                      deleteStudent();
70                      break;
71                  case 5:
72                      System.out.println
```

Run

Main.j... Output

```
72                    System.out.println
                      ("Exiting... Thank
                      you!");
73                    return;
74                default:
75                    System.out.println
                      ("Invalid choice!"
                      );
76            }
77        }
78    }
79
80    static void addStudent() {
81        System.out.print("Enter ID: "
              );
82        int id = sc.nextInt();
83        sc.nextLine();
84
85        System.out.print("Enter Name:
              ");
86        String name = sc.nextLine();
87
88        System.out.print("Enter Marks:
              ");
89        double marks = sc.nextDouble
              ();
90
91        students.add(new Student(id,
              name, marks));
92        System.out.println("Student
```

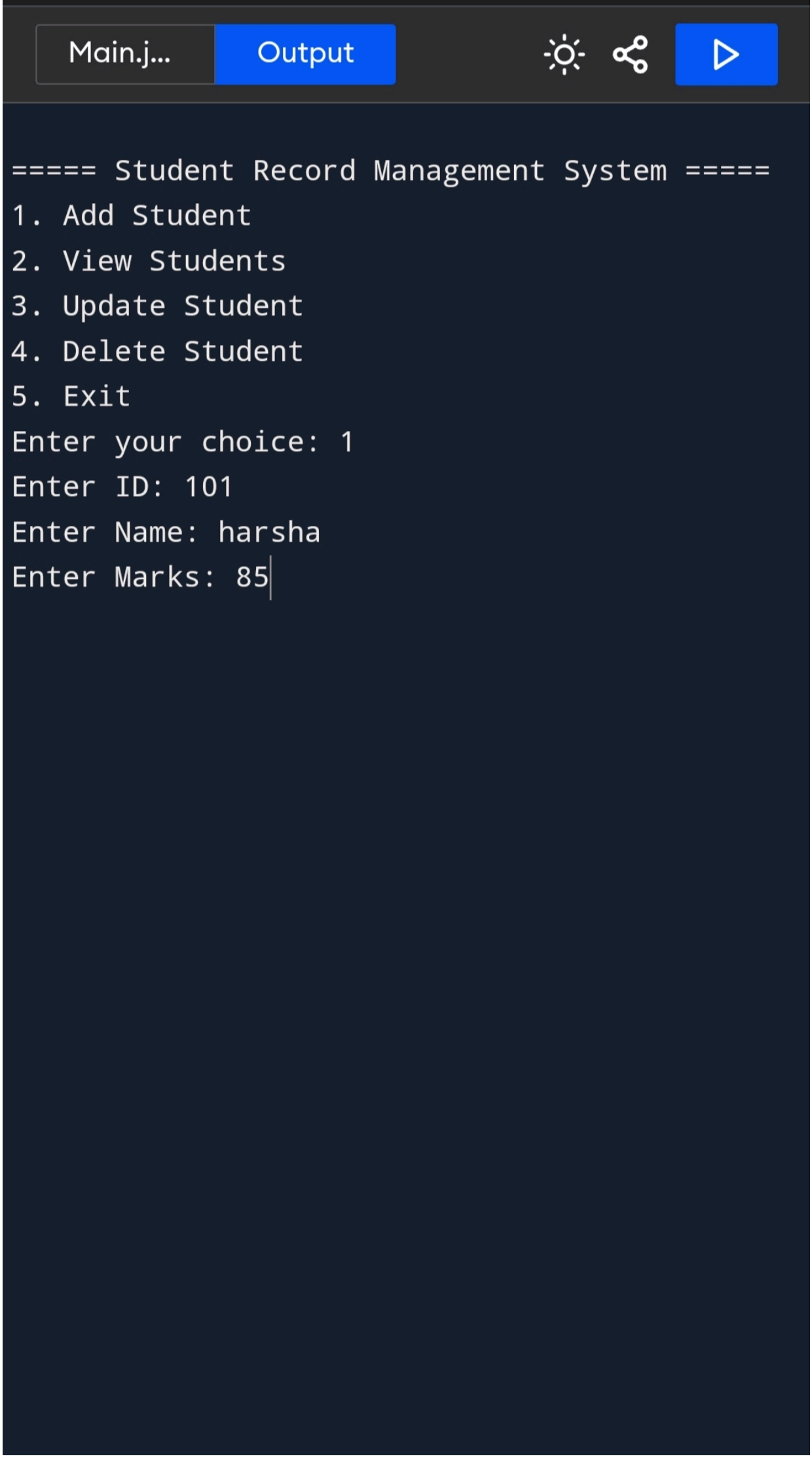
Run


Main.j...
Output
92 System.out.println("Student added successfully!");
93 }
94
95 static void viewStudents() {
96 if (students.isEmpty()) {
97 System.out.println("No students found.");
98 } else {
99 for (Student s : students) {
100 System.out.println(s);
101 }
102 }
103 }
104
105 static void updateStudent() {
106 System.out.print("Enter ID to update: ");
107 int id = sc.nextInt();
108 sc.nextLine();
109
110 for (Student s : students) {
111 if (s.getId() == id) {
112 System.out.print("Enter new name: ");
113 s.setName(sc.nextLine());
Run

Main.j... Output

```
114
115                     System.out.print
                            ("Enter new marks:
                            ");
116                     s.setMarks(sc
                            .nextDouble());
117
118                     System.out.println
                            ("Student updated
                            successfully!");
119                     return;
120                 }
121             }
122
123             System.out.println("Student
                    not found.");
124         }
125
126         static void deleteStudent() {
127             System.out.print("Enter ID to
                    delete: ");
128             int id = sc.nextInt();
129
130             for (Student s : students) {
131                 if (s.getId() == id) {
132                     students.remove(s);
133                     System.out.println
                            ("Student deleted
                            successfull
134                     return;
```

Run


Main.j...
Output
===== Student Record Management System =====
1. Add Student
2. View Students
3. Update Student
4. Delete Student
5. Exit
Enter your choice: 1
Enter ID: 101
Enter Name: harsha
Enter Marks: 85