

## **Week 2 – Java Developer Intern**

Candidate Name: Ujwal Santosh Hiranwar

Aim: CREATE A STUDENT GRADE MANAGEMENT SYSTEM (CONSOLE-BASED)

Description: Build a program where teachers can input student names and grades, and generate a report.

Output:

- 1) Add Student Grade

```
STUDENT GRADE MANAGEMENT SYSTEM ||

1. Add Student Grade
2. Update Student Grade
3. Remove Student
4. View All Students
5. Search Student
6. Generate Grade Report
0. Exit

Enter your choice: 1

Enter student name: Ujwal Hiranwar
Enter grade (0-100): 95
 Student 'Ujwal Hiranwar' added successfully with grade: 95.0
```

- 2) Update Student Grade

```
STUDENT GRADE MANAGEMENT SYSTEM ||

1. Add Student Grade
2. Update Student Grade
3. Remove Student
4. View All Students
5. Search Student
6. Generate Grade Report
0. Exit

Enter your choice: 2

Enter student name to update: Ujwal Hiranwar
Current grade: 95.0
Enter new grade (0-100): 90
 Grade updated successfully for 'Ujwal Hiranwar': 90.0
```

3) Remove Student

```
STUDENT GRADE MANAGEMENT SYSTEM
1. Add Student Grade
2. Update Student Grade
3. Remove Student
4. View All Students
5. Search Student
6. Generate Grade Report
0. Exit
Enter your choice: 3
Enter student name to remove: Aryan Meshram
 Student 'Aryan Meshram' (Grade: 80.0) removed successfully!
```

4) View All Students

```
STUDENT GRADE MANAGEMENT SYSTEM
1. Add Student Grade
2. Update Student Grade
3. Remove Student
4. View All Students
5. Search Student
6. Generate Grade Report
0. Exit
Enter your choice: 4
ALL STUDENTS
Student Name          Grade      Letter
Ujwal Hiranwar        90.00      A
Kartik Rathod          45.00      F
```

5) Search Student

```
STUDENT GRADE MANAGEMENT SYSTEM
=====
1. Add Student Grade
2. Update Student Grade
3. Remove Student
4. View All Students
5. Search Student
6. Generate Grade Report
0. Exit
=====
Enter your choice: 5
Enter student name to search: Ujwal Hiranwar
=====
Student Name: Ujwal Hiranwar
Numeric Grade: 90.0
Letter Grade: A
Status: PASS ✓
=====
```

6) Generate Grade Report

```
Enter your choice: 6
=====
STUDENT GRADE REPORT
=====

📊 OVERALL STATISTICS
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Total Students: 2
Average Grade: 67.50
Highest Grade: 90.00 (Ujwal Hiranwar)
Lowest Grade: 45.00 (Kartik Rathod)
Pass Rate: 50.0%
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📈 GRADE DISTRIBUTION
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A (90-100): 1 students
B (80-89): 0 students
C (70-79): 0 students
D (60-69): 0 students
F (0-59): 1 students
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🏆 TOP PERFORMERS
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1. Ujwal Hiranwar          90.00 (A)
2. Kartik Rathod           45.00 (F)
=====
```