**Student Management System**

A basic desktop application built using Java Swing to manage student data.

**Features**

**-** Register students with ID, name, and age

- Assign a course to a student

- Enter marks for 5 subjects

- Automatically calculate percentage and grade

- View student report (certification)

- Save all data to a file using serialization

**How to Run**

1. Compile the code:

javac StudentManagementSystem.java

2. Run the program:

java StudentManagementSystem

**How Data is Stored**

**-**All student records are saved in a file named `students.dat`

- Data is stored using Java’s object serialization

**Grade System**

Percentage Grade

90-100 A

75-89 B

60-74 C

40-59 D

Below 40 F

**Notes**

**-**Student ID should be unique (not enforced)

- File storage is simple and works for small-scale use