Assignment(7)

Student Grade Calculator

Objective:

To create a simple system to calculate student grades using method overloading.

Instructions:

1. **Create a** Student **Class:**

   - The class should have the following attributes:

     - String studentName

     - int studentID

2. **Constructor Overloading:**

   - Create two constructors for the Student class:

     - **Constructor 1:** Takes studentName and studentID as parameters.

     - **Constructor 2:** Takes only studentName and assigns a default studentID (e.g., 999).

3. **Method Overloading:**

   - Create overloaded methods named calculateGrade:

     - **Version 1:** Takes one integer parameter representing the marks out of 100 and prints the corresponding grade (A, B, C, D, or F).

     - **Version 2:** Takes three integer parameters representing the marks of three subjects, calculates the average, and prints the corresponding grade.

4. **Grade Calculation:**

    - Use the following grading scale:

        - 90-100: A

        - 80-89: B

        - 70-79: C

        - 60-69: D

        - Below 60: F

5. **Create a** Main **Class:**

    - In the Main class, create objects of the Student class using both constructors.

    - Test the overloaded calculateGrade methods with single and multiple subject marks.

Example Output:

Student: Ahmed Ali
ID: 101
Grade for 95 marks: A

Student: Salih Omer
ID: 999
Average grade for marks 85, 78, 92: B