Experiment 02 - Exercise 08: Grade Sheet (Percentage, CGPA, Grade)

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Objective

Scan marks of five subjects, calculate percentage, compute CGPA, and print a grade sheet.

Input

- Student details (name, roll number, SAP ID, etc.)
- Marks of 5 subjects (0 to 100)

Output

Formatted grade sheet including percentage, CGPA, and grade.

Approach

- Percentage $= \dfrac{\text{sum of marks}}{5}$

- CGPA $= \dfrac{\text{percentage}}{10}$

- Assign grade based on CGPA range:

  - 0.0 to 3.4: F
  - 3.5 to 5.0: C+
  - 5.1 to 6.0: B
  - 6.1 to 7.0: B+
  - 7.1 to 8.0: A
  - 8.1 to 9.0: A+
  - 9.1 to 10.0: O

Time Complexity

`O(1)` (fixed number of subjects).