

<p style="text-align: center;">COSC 1336 – Fundamentals of Programming Exam 3 – Project (40 Points)</p>

Grade Distribution

20% of the grade is programming styles

- proper variable names
- use of functions
- readability
- comments/documentation

80% - logic, proper output. Syntax, semantics, run time

Input Data

For each student, the following data will be input:

- Student name
- Exam 1 (float value)
- Exam 2 (float value)
- Exam 3 (float value)
- Exam 4 (float value)
- Exam 5 (float value)

Validation for Exam grades

Tests are graded on a 100-point scale with a 10-point bonus question. So, a valid test score should be 0 through 110.

Processing

Your program should work for any number of students.

- When the program starts, it should ask the user for the number of students to be processed.
- Function to input the student name/score pairs and store them. Input validation: the score must be between 0 and 110, inclusive.
- Function to sort the scores in ascending (increasing) order.
- Function that calculates the average of the scores.
- Function that displays a neat table of student name/score pairs in sorted order. Include appropriate column heading for your table. Following the table, display the average score and Letter Grade with appropriate labels.

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SAMPLE RUN (User entry is in RED)

User's input

How many students: 3

Student #1

Enter the name He Man

Enter grade for Exam 1: 10

Enter grade for Exam 2: 20

Enter grade for Exam 3: 30

Enter grade for Exam 4: 40

Enter grade for Exam 5: 100

Student #2

Enter the name Scooby Doo

Enter grade for Exam 1: 80

Enter grade for Exam 2: 80

Enter grade for Exam 3: 80

Enter grade for Exam 4: 80

Enter grade for Exam 4: 80

Student #3

Enter the name Ally Baba

Enter grade for Exam 1: 80

Enter grade for Exam 2: 80

Enter grade for Exam 3: 90

Enter grade for Exam 4: 90

Enter grade for Exam 4: 90

End of Semester Grades

Number of Students: 3

Name	Scores	Average	Letter Grade
Ally Baba	80, 80, 90, 90,90	84.00	B
Scooby Doo	80, 80, 80, 80, 80	80.00	B
She Man	10,20,30,40,100	40.00	F

Average Grade of all students	68.00
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