**Technical Design Document**

Karina Chorna

July 1, 2025

**Program Description**

The purpose of this program is to prompt the instructor to enter the number of students in the class, each student’s full name, and each score for three exams before storing and displaying the data.

**Function Name:** write\_grades()

**Description:**

The purpose of this function is to receive the students’ information from the instructor and add it to the record.

**Parameters:** none

**Variables:**

1. filename—stores the file name
2. num\_students—stores the number of students
3. file—file object to read CSV
4. writer—CSV writer object
5. i—loop counter for the number of students
6. first\_name—stores the student’s first name
7. last\_name—stores the student’s last name
8. exam1—stores the student’s score for the first exam
9. exam2—second exam
10. exam3—third exam

**Logical Steps:**

1. set the file name
2. prompt the instructor for the number of students
3. open the CSV file in write mode
4. create the header row
5. loop through the number of students and get data for each student
6. confirm the data was written successfully

**Returns:** none

**Function Name:** read\_grades()

**Description:**

The purpose of this function is to read the written data and display the results.

**Parameters:** none

**Variables:**

1. file\_name—stores the file name
2. file— file object to read CSV
3. reader—CSV reader object
4. header—stores the header row of the file
5. row—stores each row

**Logical Steps:**

1. set the file name
2. open the CSV file to read the contents
3. display the results including the header and each student’s records

**Returns:** none

[COP2373\_Repository](https://github.com/KarinaChorna/COP2373)

A screenshot of a computer program

AI-generated content may be incorrect.