**Program 1: Writing Student Grades to grades.csv**

**Function:** write\_grades\_to\_csv()

**Description:**

* Asks the instructor how many students they want to enter.
* Collects each student’s first name, last name, and three exam scores.
* Writes this data into a CSV file with headers.

**Parameters:**

* None

**Variables:**

* num\_students: Stores the number of students.
* students\_data: A list of dictionaries containing student records.
* file\_name: The name of the CSV file.

**Logical Steps:**

1. Asks the user for the number of students (num\_students).
2. Creates an empty list (students\_data) to store student records.
3. Loops for each student:
   * Get first\_name, last\_name, exam1, exam2, and exam3.
   * Store them as a dictionary and append them to students\_data.
4. Opens grades.csv in write mode using with open(...).
5. Writes headers: "First Name", "Last Name", "Exam 1", "Exam 2", "Exam 3".
6. Writes each student's data to the file.
7. Closes the file.

**Return:**

* None

**Program 2: Reading and Displaying Data from grades.csv**

**Function:** read\_grades\_from\_csv()

**Description:**

* Reads the grades.csv file.
* Displays the contents in a formatted table.

**Parameters:**

* None

**Variables:**

1. file\_name: The name of the CSV file.
2. students\_data: A list to store student records read from the file.

**Logical Steps:**

1. Opens grades.csv in read mode using with open(...).
2. Uses csv.DictReader() to read the file contents.
3. Prints column headers that are formatted.
4. Loops through each student record and prints the details in a structured table format.

**Return:**

* None

**Logical Steps:**

**Writing Data (write\_grades\_to\_csv):**

* Asks the user for the number of students.
* Collects the student names and exam scores.
* Writes the data into grades.csv using csv.DictWriter.

**Reading Data (read\_grades\_from\_csv):**

* Opens grades.csv and reads its contents using csv.DictReader.
* Displays the data in a formatted table.

A screenshot of a computer

AI-generated content may be incorrect.

**Link:** <https://github.com/Art389/COP-2373>