**Technical Design Document**

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**Program Description:**

The first program will ask the user to input the number of students they would like to input grades for. The program will ask for first and last names and for three exam scores. The program then stores that data in a CSV file which when the second program is run, the data is displayed in tabular format in a clean table.

**Functions used in the Program (list in order as they are called):**

1. **Function Name:** write\_grades\_to\_csv()

**Description:** Asks the user for the student data and puts it into a CSV file

**Parameters:** none

**Variables:**

* num\_students : int
* first\_name : str
* last\_name : str
* exam1, exam2, exam3 : int
* writer

**Logical Steps:**

1. Asks the user to enter the number of students they would like to record exam scores for
2. Opens the CSV file in write mode
3. Writes header row
4. Loops through the number of students and asks for their first/last name and 3 exam scores
5. Writes the data in the csv file and lets the user know the data has been recorded

**Returns:** none

2. **Function Name:** read\_and\_display\_grades()

**Description:** Reads the data inputted in the first function from the csv file and displays the data in a tabular format

**Parameters:** none

**Variables:**

* header : list
* row : list
* reader

**Logical Steps:**

1. Opens the CSV file in read mode
2. Reads the header and prints the table data with proper spacing
3. Prints the data of each student in tabular format

**Returns:** none

**Logical Steps:**

1. Run the first program with write\_grades\_to\_csv()
2. The data that was inputted in the first program stores the data in the CSV file
3. When the second program read\_and\_display\_grades() is run, the function reads the CSV file and displays the data

**Link to your repository:** <https://github.com/Roboriko/PythonCOP2373>

**Output Screenshot: (make sure big enough so I can see)** A black rectangular object with a black background

AI-generated content may be incorrect.

A black screen with white text

AI-generated content may be incorrect.