**Technical Design Document**

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**Program Description:**

The goal of this code is to create a program that prompts the instructor to enter a number of students, their full names, and three exam grades, which are stored in the csv file. It then displays the grades and student information.

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

**Description:** This function prompts the instructor to enter the number of students and their information and stores the grades in the csv file.

**Parameters:** none

**Variables:**

1. filename – stores name of csv file
2. num\_students – stores the number of students entered by the instructor
3. file – stands for opened file object
4. writer – writes rows into csv file
5. i – keeps track of number of students entered
6. first\_name – stores student’s first name
7. last\_name – stores student’s last name
8. exam1 – stores the first exam grade
9. exam2 – stores the second exam grade
10. exam3 – stores the third exam grade

**Logical Steps:**

1. define the filename
2. prompt the instructor to enter a number of students
3. open the grades.csv file
4. create csv writer object
5. create header row
6. loop for each student to get their names and grades
7. print confirmation message after loop ends

**Returns:** none

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

**Description:** This function reads the contents of the csv file and displays it in a tabular format.

**Parameters:** none

**Variables:**

1. filename – stores name of csv file
2. file – file object opened
3. reader – reads data from file
4. header – stores the first row of csv file
5. row – stores each line of the csv file after the header

**Logical Steps:**

1. define the filename
2. open the file in read mode
3. create reader object
4. read the header row
5. print table headers
6. print separator line for readability
7. loop through each row
8. print data rows

**Returns:** none

[COP2373 Repository](https://github.com/kristinachorna/COP2373)

A screenshot of a computer program

Description automatically generated