**Technical Design Document Template**

**Name:** Jace Walker

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**Program Description:**

This program is made up of two different functions. The first asks for quantity of students and then requests names and grades for the amount of students. This info is recorded into a file. The second function opens the file and displays the information as a table.

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

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

**Description:** This function requests quantity of students and then their names and grades. This info is stored into a file named “grades.csv”

**Variables:**

writer = csv.writer is the class that actually writes in the file so I gave it an easier name

student\_amount = total amount of students

student\_first = first name

student\_last = last name

student\_exam1 = exam 1

student\_exam2 = exam 2

student\_exam3 = exam 2

**Logical Steps:**

1. Opens grades.csv file
2. Creates header
3. Asks for number of students
4. Using that number as range in for loop, asks for student info
5. Writes that student info as a new row for every student

**Returns:** Returns grades.csv file full of names and grades

2. **Function Name:** read\_file()

**Description:** This function opens the “grades.csv” file and displays info as a table.

**Variables:**

reader = reader is the csv class that reads the file, I gave it an easier name

file\_header = assigned easier name to method that reads the *next* value in a line (the header)

student = list that contains current student’s (current as in each row is a new student) first and last name, and their grades

**Logical Steps:**

1. Opens file in READ mode as to not erase current content
2. Read each value in header and display
3. Read each student (row) and display using same settings (?) as header

**Logical Steps:**

1. Call write\_grades()
2. Call read\_file()

**Link to your repository:** <https://github.com/jace-walker/COP2073>