# Student Grade Calculator – Documentation *Version 2.0*

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Description automatically generated

***Student Grade Calculator is a simple java application designed to calculate the final grade for each student based on the scores received for each group of assessments.***

***This Documentation is to assist in using the application.***

***Runtime Arguments****Java -jar StudentGradeCalc2.jar <database> <user-interface>*

***Console Only Example:****java -jar StudentGradeCalc2.jar database.csv console*

***GTerm GUI Only Example:****java -jar StudentGradeCalc2.jar database.csv gterm*

***Both Interfaces Example:****java -jar StudentGradeCalc2.jar database.csv  
  
OR*

*java -jar StudentGradeCalc2.jar database.csv both*

Contents

[Student Grade Calculator – Documentation *Version 2.0* 1](#_Toc65414408)

[GUI: Adding a Student and Their Grades: 3](#_Toc65414409)

[GUI: Modify a Student and Their Grades: 7](#_Toc65414410)

[GUI: Delete a Student and Their Grades: 9](#_Toc65414411)

[GUI: Delete all Student and Their Grades: 10](#_Toc65414412)

[GUI: Import CSV: 11](#_Toc65414413)

[GUI: Export CSV: 13](#_Toc65414414)

[Console: Adding a Student and Their Grades: 15](#_Toc65414415)

[Console: Modify a Student and Their Grades: 16](#_Toc65414416)

[Console: Delete a Student and Their Grades: 19](#_Toc65414417)

[Console: Delete all Student and Their Grades: 20](#_Toc65414418)

[Console: Import CSV: 21](#_Toc65414419)

[Console: Export CSV: 22](#_Toc65414420)

# GUI: Adding a Student and Their Grades:

First, we need to enter a **Student Name**; Two required fields; First Name and Last Name

Diagram

Description automatically generated

Now we can enter the student's marks for each group of assessments:

Diagram

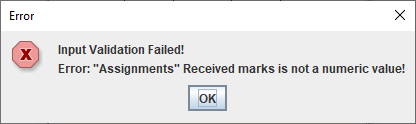
Description automatically generated with medium confidence

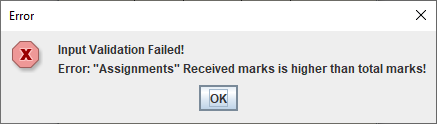
When all Data has been entered, selected the "Calculate Button."

Diagram

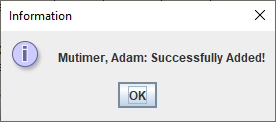
Description automatically generated

***If incorrect information put into these fields, Validation Errors will be presented an error message, that should assist in resolving the issue:***





***If valid information is provided, the user will be presented with a message similar to this:***



The Students grades will now appear in the "Results" Window:

Table

Description automatically generated

The user may now continue to enter more Students into the Main Window Form as it has reset, awaiting new input:

Diagram

Description automatically generated with medium confidence

# GUI: Modify a Student and Their Grades:

On the "Results" window, select the row containing the student you wish to modify:

Table

Description automatically generated

Then Select the "Modify Row" button:

Table

Description automatically generated

The "Main" application window will now show the students information, and the student will no longer be in the "Results" window:

Graphical user interface, table

Description automatically generated

Now the user may edit the information, as usual, then select the Calculate button; as expected, the Students details will then be updated and displayed on the student table.

Table

Description automatically generated

# GUI: Delete a Student and Their Grades:

Select the student on the "Results" window:

Graphical user interface, table

Description automatically generated

Followed by the "Delete Row" Button:

Table

Description automatically generated

The student has now been deleted.Table

Description automatically generated

# GUI: Delete all Student and Their Grades:

To delete all Students, on the "Results" Window select the "Empty Table" button:

Table

Description automatically generated

All Student information will now be deleted:

Graphical user interface, text, application

Description automatically generated

# GUI: Import CSV:

To Import a CSV, Select the "Import CSV" button

Graphical user interface, text, application

Description automatically generated

A dialogue window will then open:

Graphical user interface, text, application, email

Description automatically generated

Navigate to the file you wish to import and select "Open":

Graphical user interface, text, application, email

Description automatically generated

The CSV will then be imported, and data will be displayed on Student Table:

Table

Description automatically generated

# GUI: Export CSV:

To export the Student Data: select the "Export CSV" button:

Table

Description automatically generated

A dialogue window will then open:

Graphical user interface, text, application, email

Description automatically generated

Navigate to the location you wish to save the CSV file, and enter a filename, then click "Open":

Graphical user interface, text, application, email

Description automatically generated

The CSV file will now be created:

Graphical user interface, text, application, email

Description automatically generated

# Console: Adding a Student and Their Grades:

To add a student's grades; first, we need to enter the commands "add":

Graphical user interface

Description automatically generated

The User will now be prompted for the following fields:

* **First Name**
* **Last Name**
* *Tutorials*
  + **Marks Given**
  + **Total Marks Available**
* *Assignments*
  + **Marks Given**
  + **Total Marks Available**
* *Exam*
  + **Marks Given**
  + **Total Marks Available**

A picture containing text, black, scoreboard, plaque

Description automatically generated

***If incorrect information put into these fields, Validation Errors will be presented an error message, that should assist in resolving the issue:***





***If valid information is provided, the user will be presented with a message similar to this:***

******

The Students grades will now appear to be in the results table:

Text

Description automatically generated

# Console: Modify a Student and Their Grades:

To Modify a Student, take note of the "ID" associated with that student, then type the "edit" command:  
Text

Description automatically generated with medium confidence

You will be prompted to enter a "Record ID" enter the target id:

Graphical user interface

Description automatically generated

* You will now be promoted to enter the following fields:  
  **First Name**
* **Last Name**
* *Tutorials*
  + **Marks Given**
  + **Total Marks Available**
* *Assignments*
  + **Marks Given**
  + **Total Marks Available**
* *Exam*
  + **Marks Given**
  + **Total Marks Available**

Entering no information to a field will default that field to the existing stored details shown in "[ DEFAULT ]":

A picture containing text

Description automatically generated

***If incorrect information put into these fields, Validation Errors will be presented an error message, that should assist in resolving the issue:***





***If valid information is provided, the user will be presented with a message similar to this:***

******

The Students grades will now appear to be in the results table:

Text

Description automatically generated

# Console: Delete a Student and Their Grades:

To Delete a Student, take note of the "ID" associated with that student, then type the "delete" command:

A picture containing text, scoreboard, screenshot

Description automatically generated

User will then be prompted to enter a "Record ID":

A picture containing graphical user interface

Description automatically generated

Enter Target Record ID

Student has now been deleted:

A picture containing text, scoreboard, plaque

Description automatically generated

# Console: Delete all Student and Their Grades:

To delete all students, enter the command "empty":

Graphical user interface

Description automatically generated with medium confidence

# Console: Import CSV:

To import a CSV file enter the command "import":

A picture containing graphical user interface

Description automatically generated

Now enter the filename or path and filename to the CSV file you wish to import:

A picture containing graphical user interface

Description automatically generated

The CSV file will then be imported and processed:  
A computer screen capture

Description automatically generated with low confidence

# Console: Export CSV:

To export a CSV file, enter the command "export":

Graphical user interface

Description automatically generated

Now enter the filename or path and filename to the CSV file you wish to export:

Text

Description automatically generated

The Exported CSV will now be available is the requested location:

Graphical user interface, text, application, email

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