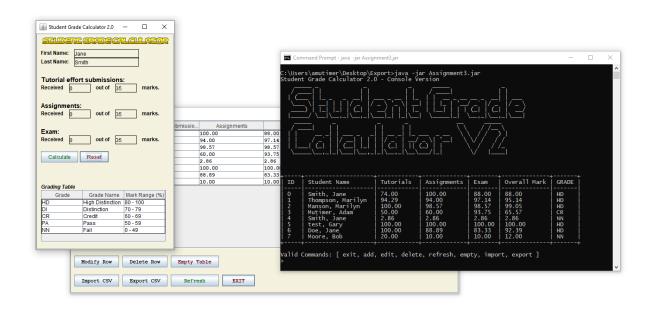
Student Grade Calculator – Documentation *Version 2.0*



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

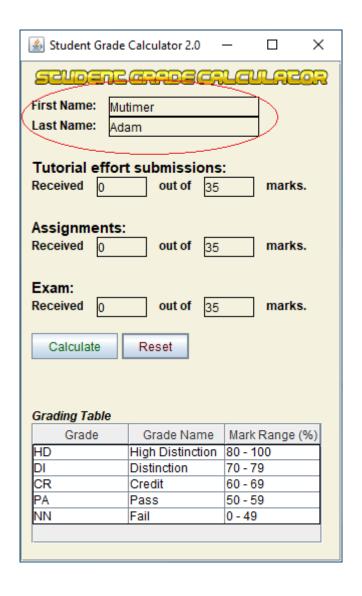
java -jar StudentGradeCalc2.jar database.csv both

Contents

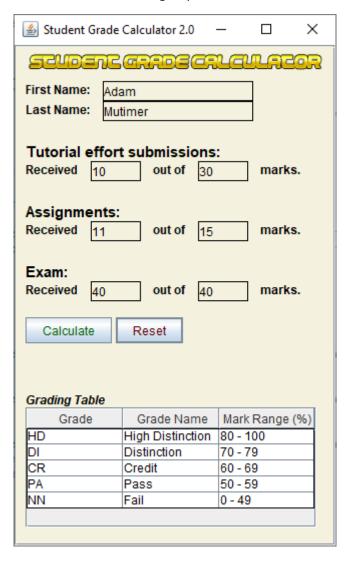
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GUI: Adding a Student and Their Grades:

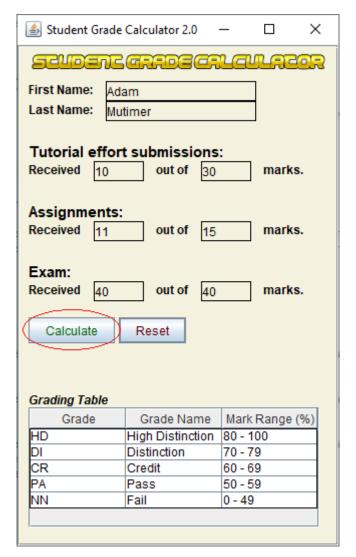
First, we need to enter a **Student Name**; Two required fields; First Name and Last Name



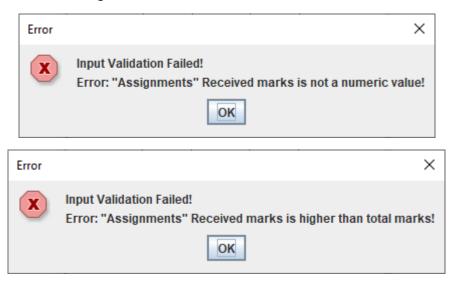
Now we can enter the student's marks for each group of assessments:



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



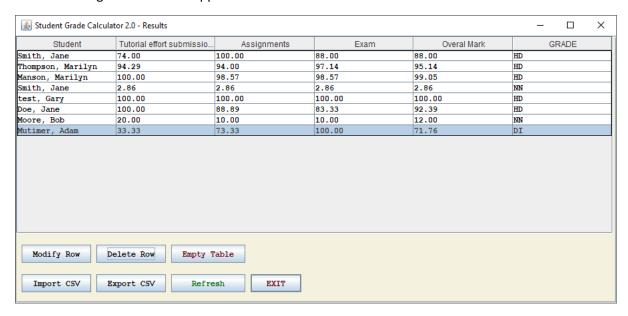
If incorrect information put into these fields, Validation Errors will be presented an error message, that should assist in resolving the issue:



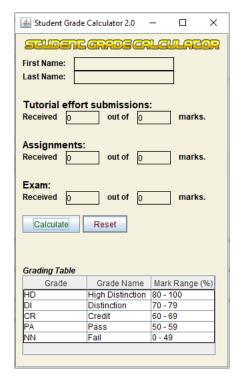
If valid information is provided, the user will be presented with a message similar to this:



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

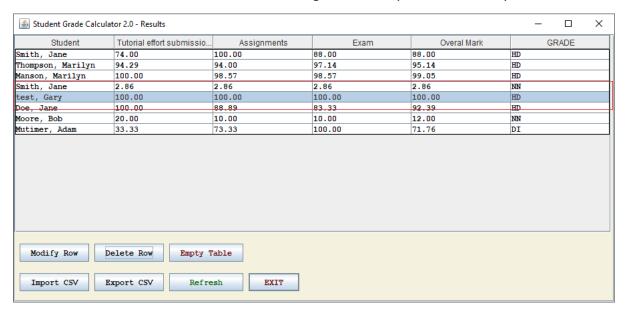


The user may now continue to enter more Students into the Main Window Form as it has reset, awaiting new input:

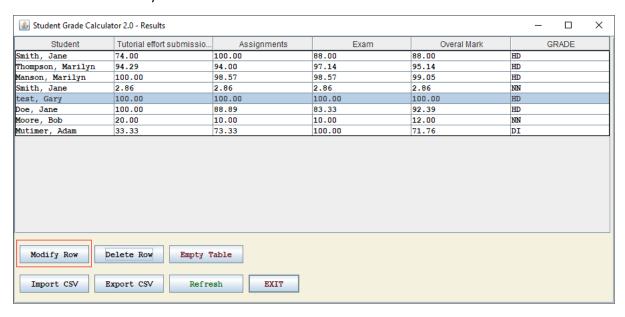


GUI: Modify a Student and Their Grades:

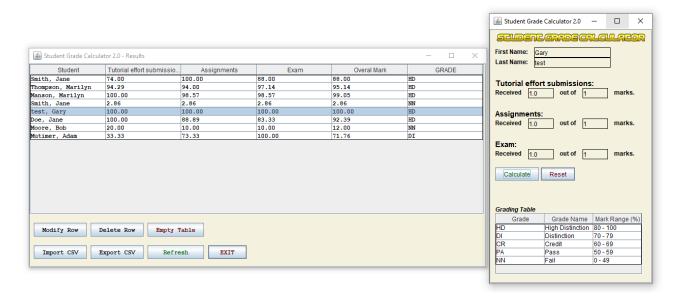
On the "Results" window, select the row containing the student you wish to modify:



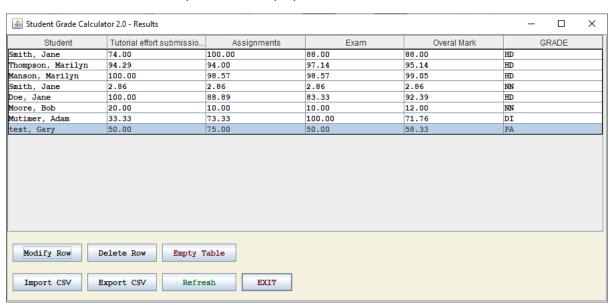
Then Select the "Modify Row" button:



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

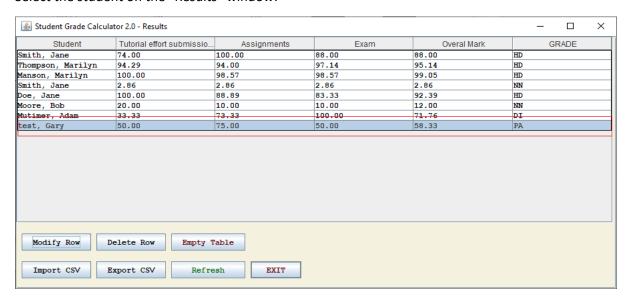


Now the user may edit the information, as usual, then select the Calculate button; as expected, the Students details will then be updated and displayed on the student table.

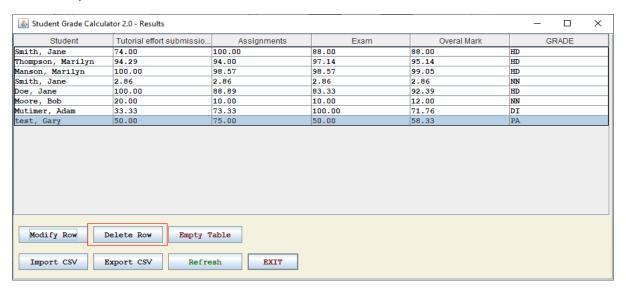


GUI: Delete a Student and Their Grades:

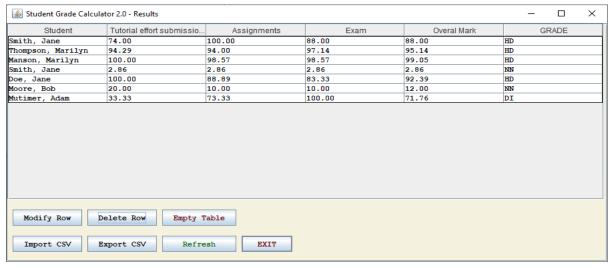
Select the student on the "Results" window:



Followed by the "Delete Row" Button:

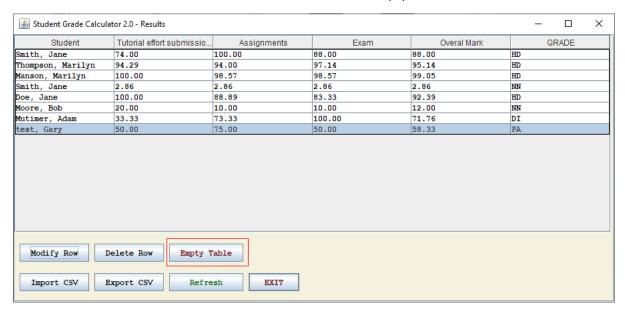


The student has now been deleted.

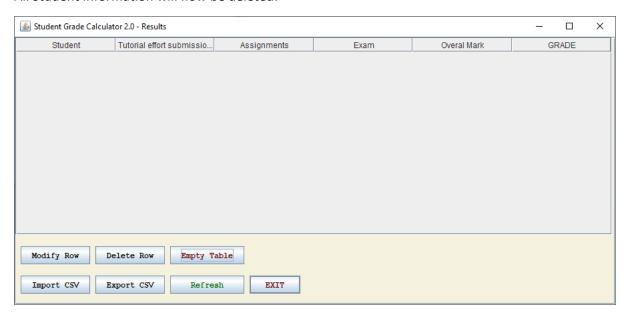


GUI: Delete all Student and Their Grades:

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



All Student information will now be deleted:

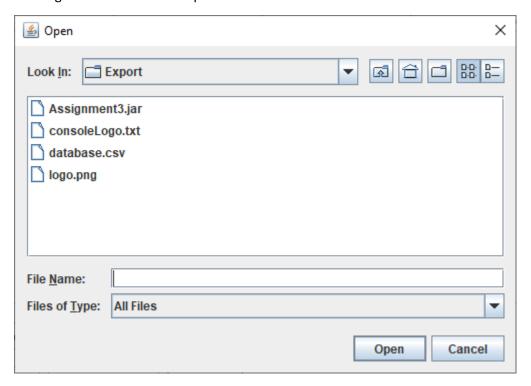


GUI: Import CSV:

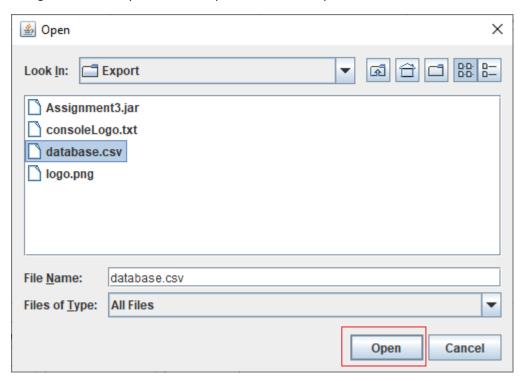
To Import a CSV, Select the "Import CSV" button



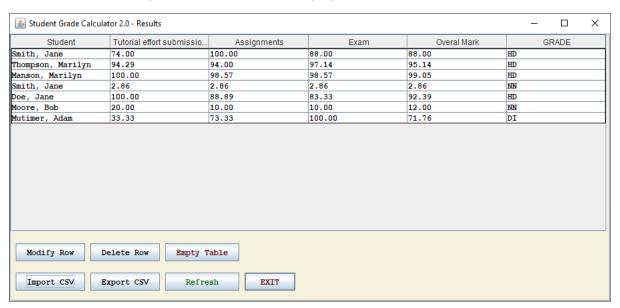
A dialogue window will then open:



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

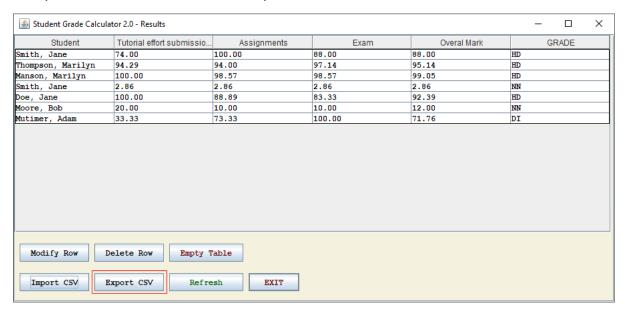


The CSV will then be imported, and data will be displayed on Student Table:

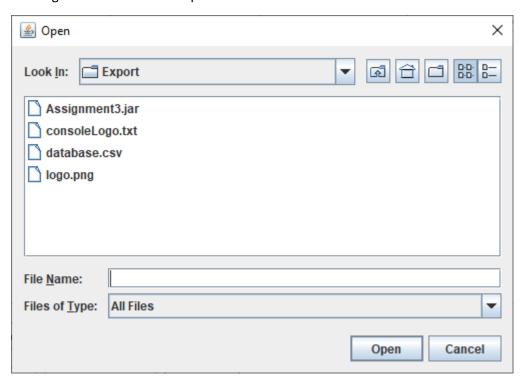


GUI: Export CSV:

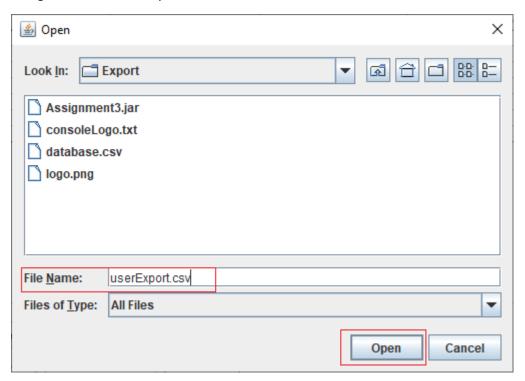
To export the Student Data: select the "Export CSV" button:



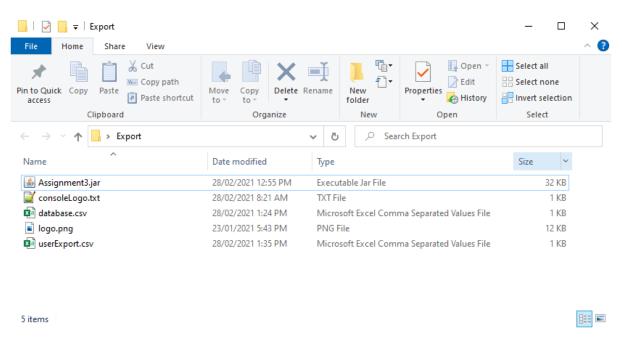
A dialogue window will then open:



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

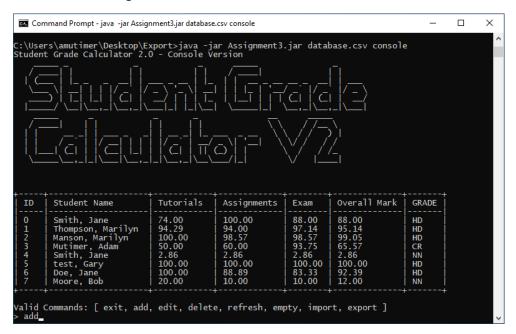


The CSV file will now be created:



Console: Adding a Student and Their Grades:

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



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
 - o Marks Given
 - Total Marks Available

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

```
Input Validation Failed!
Error: "Tutorial effort submissions" Received marks is not a numeric value!

Input Validation Failed!
Error: "Tutorial effort submissions" Received marks is higher than total marks!
```

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

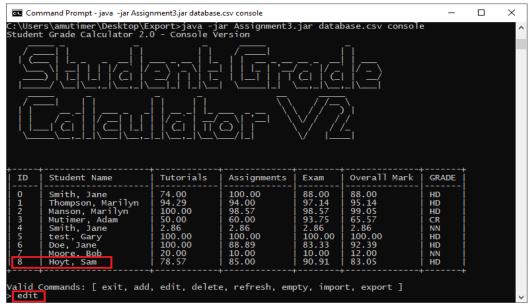
Hoyt, Sam: Successfully Added!

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

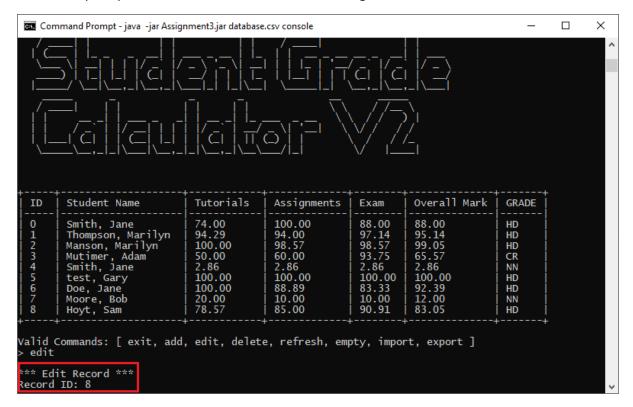
ID	Student Name	Tutorials	Assignments	Exam	Overall Mark	GRADE
0 1 2 3 4 5 6 7	Smith, Jane Thompson, Marilyn Manson, Marilyn Mutimer, Adam Smith, Jane test, Gary Doe, Jane Moore, Bob Hoyt, Sam	74.00 94.29 100.00 50.00 2.86 100.00 100.00 20.00 78.57	100.00 94.00 98.57 60.00 2.86 100.00 88.89 10.00	88.00 97.14 98.57 93.75 2.86 100.00 83.33 10.00	88.00 95.14 99.05 65.57 2.86 100.00 92.39 12.00 83.05	HD HD HD CR NN HD HD NN
	ноут, sam + Commands: [exit, add			+	+	++

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:



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



• You will now be promoted to enter the following fields:

First Name

- Last Name
- Tutorials
 - Marks Given
 - Total Marks Available
- Assignments
 - o Marks Given
 - Total Marks Available
- Exam
 - o Marks Given
 - Total Marks Available

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

```
Command Prompt - java -jar Assignment3.jar database.csv console
               Assignments
               Student Name
                                                           Tutorials
                                                                                                                                     Overall Mark
                                                                                                                                                                     GRADE
                                                                                                                   Exam
                                                                                     100.00
94.00
98.57
60.00
2.86
100.00
88.89
10.00
85.00
                                                                                                                   88.00
97.14
98.57
93.75
2.86
100.00
83.33
                                                           74.00
94.29
100.00
50.00
2.86
100.00
100.00
                                                                                                                                     88.00
95.14
99.05
65.57
2.86
100.00
92.39
12.00
83.05
               Smith, Jane
Thompson, Marilyn
Manson, Marilyn
Mutimer, Adam
Smith, Jane
test, Gary
Doe, Jane
Moore Rob
                                                                                                                                                                    HD
HD
CR
NN
HD
NN
HD
NN
HD
               Doe, Jame
Moore, Bob
Moore, Sam
Valid Commands: [ exit, add, edit, delete, refresh, empty, import, export ]
*** Edit Record ***
Record ID: 8
SELECTED: [8] Hoyt, Sam
 irst Name [Sam]:
ast Name [Hoyt]:
Please Enter Results for [Hoyt, Sam]:
- Tutorials -
Marks Given <mark>[22.0]: _</mark>
```

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

```
Input Validation Failed!
Error: "Tutorial effort submissions" Received marks is not a numeric value!
Input Validation Failed!
Error: "Tutorial effort submissions" Received marks is higher than total marks!
```

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

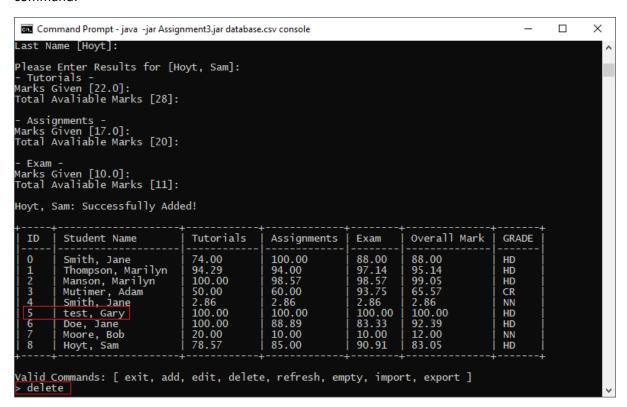
```
Hoyt, Sam: Successfully Added!
```

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

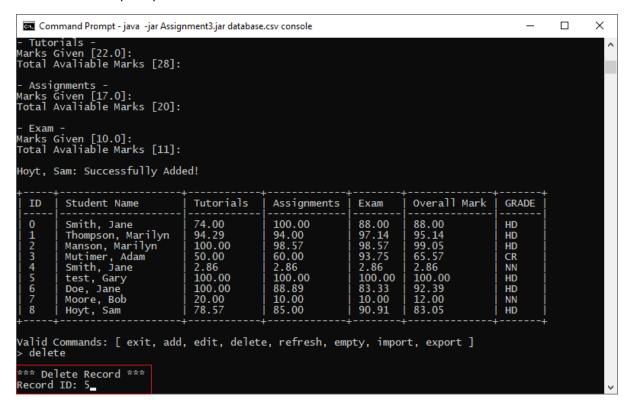
D	Student Name	Tutorials	Assignments	Exam	Overall Mark	GRADE
	Smith, Jane	74.00	100.00	88.00	88.00	HD
	Thompson, Marilyn	94.29	94.00	97.14	95.14	HD
	Manson, Marilyn	100.00	98.57	98.57	99.05	HD
	Mutimer, Adam	50.00	60.00	93.75	65.57	CR
	Smith, Jane	2.86	2.86	2.86	2.86	NN
	test, Gary	100.00	100.00	100.00	100.00	HD
	Doe, Jane	100.00	88.89	83.33	92.39	HD
	Moore, Bob	20.00	10.00	10.00	12.00	NN
	Hoyt, Sam	78.57	85.00	90.91	83.05	HD
id	+ Commands: [exit, add	, edit, delet	e, refresh, em	pty, impo	+ rt, export]	+

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:

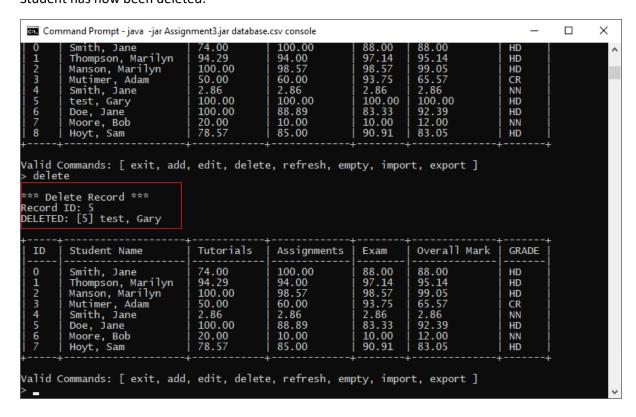


User will then be prompted to enter a "Record ID":



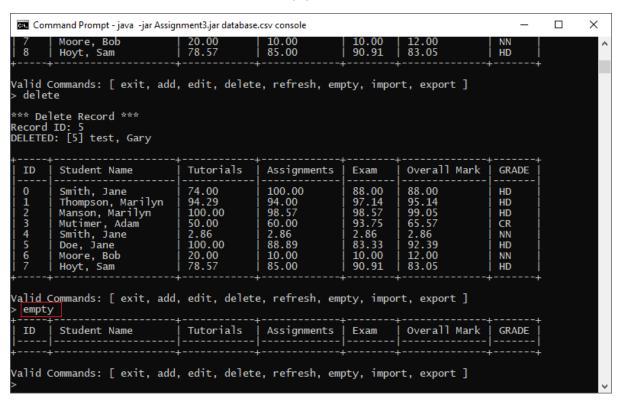
Enter Target Record ID

Student has now been deleted:



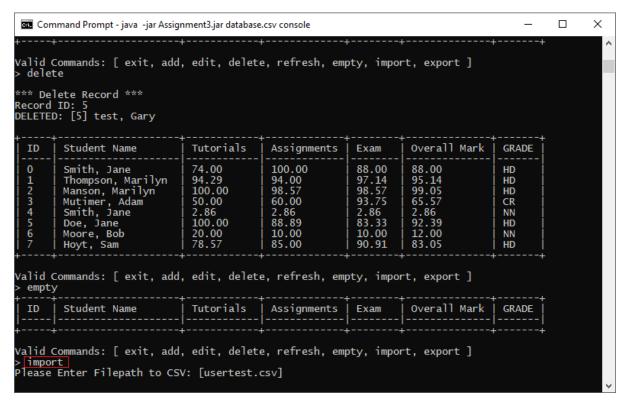
Console: Delete all Student and Their Grades:

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



Console: Import CSV:

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



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

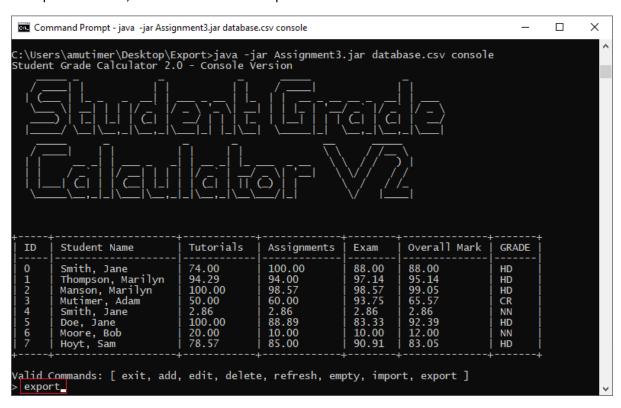
```
×
 Command Prompt - java -jar Assignment3.jar database.csv console
Valid Commands: [ exit, add, edit, delete, refresh, empty, import, export ]
> delete
*** Delete Record ***
Record ID: 5
DELETED: [5] test, Gary
           Student Name
                                         Tutorials
                                                                                             Overall Mark
  ID
                                                            Assignments
                                                                                Exam
                                                                                                                  GRADE
                                                            100.00
           Smith, Jane
                                         74.00
                                                                                88.00
                                                                                             88.00
                                                                                                                  HD
           Thompson, Marilyn
Manson, Marilyn
                                         94.29
100.00
50.00
2.86
                                                                                97.14
98.57
93.75
2.86
83.33
10.00
90.91
                                                                                             95.14
99.05
65.57
2.86
92.39
12.00
83.05
                                                            94.00
98.57
60.00
2.86
                                                                                                                  HD
HD
CR
NN
HD
  234567
          Mutimer, Adam
Smith, Jane
Doe, Jane
Moore, Bob
Hoyt, Sam
                                         100.00
20.00
78.57
                                                            88.89
10.00
85.00
                                                                                                                  HD
Valid Commands: [ exit, add, edit, delete, refresh, empty, import, export ]
  empty
           Student Name
                                         Tutorials
                                                            Assignments
                                                                                             Overall Mark
                                                                                                                  GRADE
Valid Commands: [ exit, add, edit, delete, refresh, empty, import, export ]
> import
Please Enter Filepath to CSV: [usertest.csv]
database.csv
```

The CSV file will then be imported and processed:

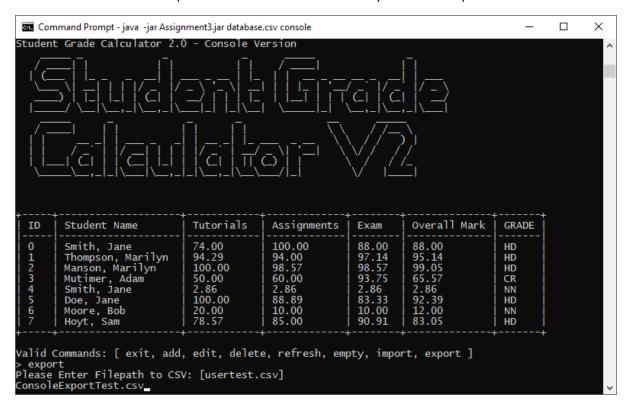
Con	nmand Prompt - java -jar Assigi			. 02 75	C	CD.	
3 4	Mutimer, Adam Smith. Jane	50.00 2.86	60.00 2.86	93.75 2.86	65.57 2.86	CR	
<u> </u>		100.00	88.89	83.33	92.39	HD I	
6 j				10.00	12.00	NN	
7 +	Hoyt, Sam	78.57	85.00 +	90.91 	83.05 	HD	
lid C empty	Commands: [exit, add /	, edit, delet	e, refresh, em	pty, impo	rt, export]		
+ [D	Student Name	Tutorials	Assignments	Exam	Overall Mark	GRADE	
 +			I	+	+	 +	
	 Commands: [exit, add		+		,	 +	
impor ease	 Commands: [exit, add	, edit, delet	e, refresh, emp		,		
impor ease tabas	Commands: [exit, add t Enter Filepath to CS se.csv	, edit, delet	e, refresh, emp		,		
imporease cabas + ID	Commands: [exit, add t Enter Filepath to CS se.csv Student Name	, edit, deleto /: [usertest.o	e, refresh, em csv] 	pty, impor	rt, export]	 GRADE	
imporease cabas + [D 	Commands: [exit, add t Enter Filepath to CS se.csv	, edit, deleto	+ e, refresh, em csv]	pty, impo	rt, export]		
imporease tabas + [D 	Commands: [exit, add t t Enter Filepath to CS se.csv Student Name Smith, Jane Thompson, Marilyn Manson, Marilyn	, edit, deleto /: [usertest.o Tutorials 74.00 94.29 100.00	+	pty, impor	rt, export] Overall Mark 88.00 95.14 99.05		
imporease tabas + ID 	Commands: [exit, add t Enter Filepath to CS Se.csv Student Name Smith, Jane Thompson, Marilyn Manson, Marilyn Mutimer, Adam	, edit, deleto /: [usertest.o Tutorials 74.00 94.29 100.00 50.00	+	pty, important the property of	rt, export] Overall Mark 88.00 95.14 99.05 65.57	 GRADE HD HD HD CR	
imporease tabase+ ID 0 1 2 3	Commands: [exit, add tt Enter Filepath to CSSE.CSV Student Name Smith, Jane Thompson, Marilyn Mutimer, Adam Smith, Jane	, edit, deleto /: [usertest.organian] Tutorials 74.00 94.29 100.00 50.00 2.86		pty, important in the second s	rt, export] Overall Mark 88.00 95.14 99.05 65.57 2.86	GRADE HD HD HD CR	
impor ease tabas ID 0 1 2 3 4	Commands: [exit, add tt Enter Filepath to CS se.Cs v	/: [usertest./ /: [usertest./ 		ty, important terms of the property of the pro	rt, export] Overall Mark 88.00 95.14 99.05 65.57 2.86 92.39	GRADE HD HD HD CR NN HD	
impor ease	Commands: [exit, add tt Enter Filepath to CS se.Cs v	, edit, delete /: [usertest.organian] Tutorials 74.00 94.29 100.00 50.00 2.86 100.00 20.00		pty, important in the second s	rt, export] Overall Mark 88.00 95.14 99.05 65.57 2.86	GRADE HD HD HD CR	

Console: Export CSV:

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



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



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

