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# CLASSROOM ROBOT

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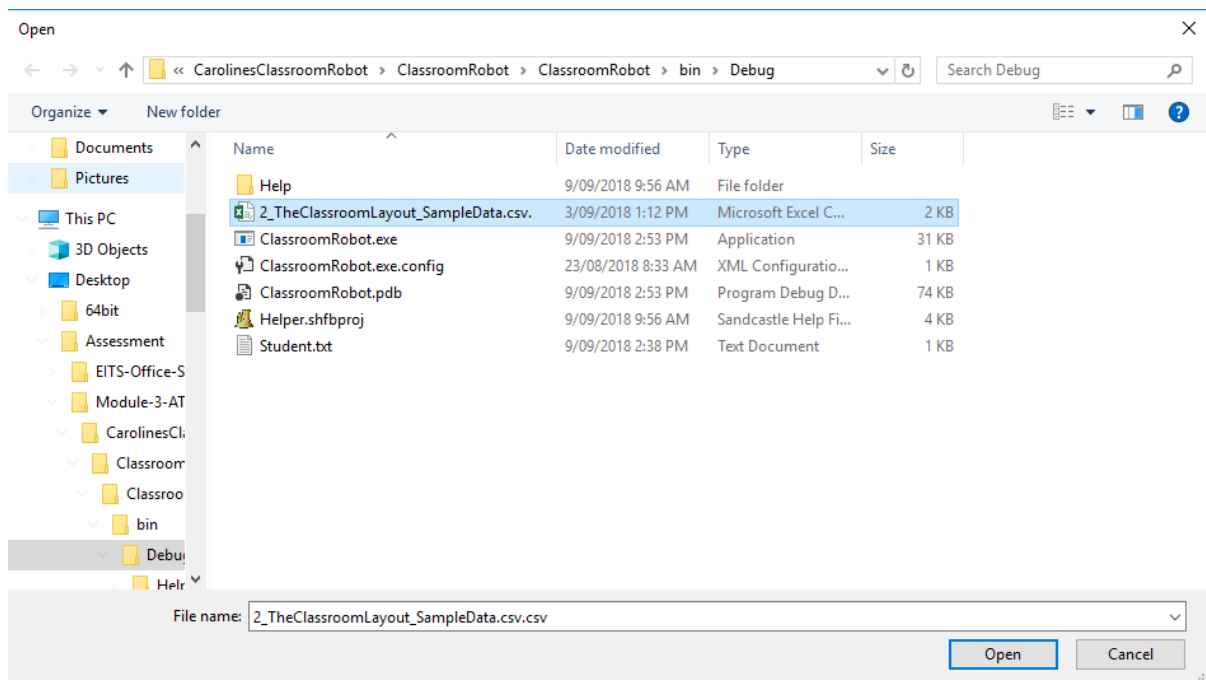
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## Summary

Caroline's Classroom Robot is designed to display a grid-format of a classroom. The grid is an overview of the entire classroom, displaying all the desks within the class and the students who own the desks. This application allows the user to view this information and edit it. With the click of a button the user can clear all the students, removing them from the desks, rename the people sitting at the desks and save all changes. It also allows the user to sort the students alphabetically and search for specific students. Another feature is writing specific students to a txt file for quick random access.

## Using the application

When you first start the application, the first thing you will see is this:



The application will ask you to select a classroom layout. Access the programs directory:  
CarolinesClassroomRobot\ClassroomRobot\ClassroomRobot\bin\Debug

Here select:

2\_TheClassroomLayout\_SampleData.csv

## Using the application

Once this is done, the program should display a grid like this:

The screenshot shows a window titled "Form1" with a "Classroom Plan" header. Below the header, there are fields for "Teacher: Caroline", "Class: 5B", "Room: B16", and "Date: 9/09/2018". The main area is a grid with 19 rows (0-18) and 10 columns (0-9). The grid contains names of students, with some cells highlighted in blue. The names are as follows:

	0	1	2	3	4	5	6	7	8	9
0					Front Desk					
1										
2										
3										
4										
5		Jane	Alisha		Tony	Ahmed		Peta	Jenny	
6										
7										
8		Hanna	Terri		James	Henri		Cian	Ana	
9										
10										
11		Han	Mark		Sian	Sarah		Makin	John	
12										
13										
14										
15										
16										
17										
18										

At the bottom of the window, there is a "Search" label and a text input field. Below the grid, there are buttons for "Edit", "Clear", "Save", "Sort", "Find", "RAF", and "Exit".

Here, you may do what you like. To edit names, simply look to the grid and select the name you would like to edit. Once that is done, simple look to the bottom left corner, there you will see a button called edit, click this and a form should popup like so:

The screenshot shows a dialog box titled "Editing Han". It has a "Name:" label and a text input field containing the name "Han". Below the input field, there are two buttons: "Cancel" and "Save".

## Using the application

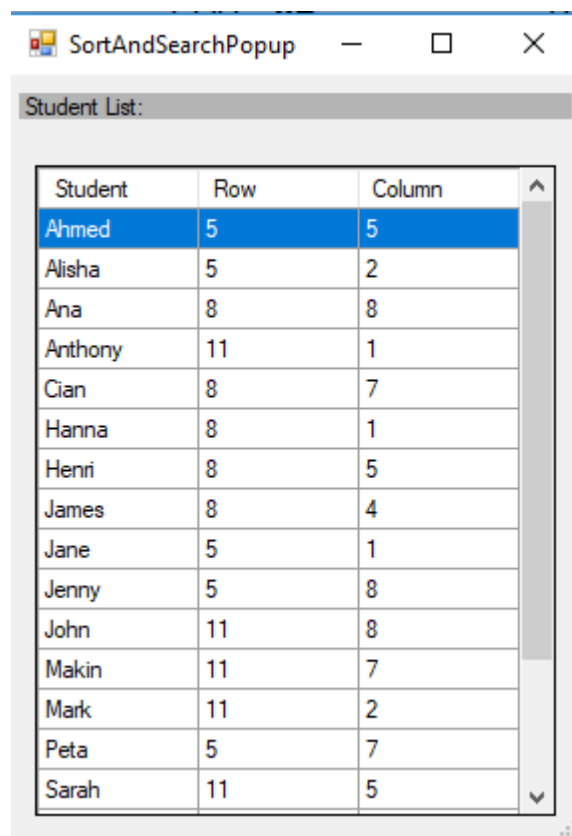
Just enter the name you would like and click save. The grid will update and the grid cell you selected earlier will have its name change to what you saved.

The next feature is the button next to “Edit”, which is “Clear”. Clear just as it sounds, clears the grid of all students. If you click clear all students will be removed from the grid.

## Using the application

Next is “Save”. Save is extremely important to remember if you are editing the grid in anyway. Clicking save will create a new csv file with all the new information, to use it, simply choose that csv over 2\_TheClassroomLayout\_SampleData.csv on start up.

Clicking sort will display another form, just like edit did:



The screenshot shows a window titled "SortAndSearchPopup" with a "Student List:" label. Below the label is a table with three columns: "Student", "Row", and "Column". The table contains 15 rows of student data. The first row, "Ahmed", is highlighted in blue. A vertical scrollbar is on the right side of the table.

Student	Row	Column
Ahmed	5	5
Alisha	5	2
Ana	8	8
Anthony	11	1
Cian	8	7
Hanna	8	1
Henri	8	5
James	8	4
Jane	5	1
Jenny	5	8
John	11	8
Makin	11	7
Mark	11	2
Peta	5	7
Sarah	11	5

## Using the application

Here all students are arranged alphabetically and displayed, along with their positions on the grid.

Search is almost identical to sort. The only difference being you type the name of the student you are looking for into the text box and click find. Then an identical form will popup, only this time the student whose name you searched for will be highlighted, just like Ahmed is, in the above image.

RAF allows the user to save students to a txt file and access them again quickly. When you click the RAF button you will be asked if you want to save the selected student. If you select yes, the student will be saved to the text file and given a student number for identification. Then, next time you click RAF select no. A form similar to Edit will appear asking for a student number. Once you enter a number, if the number exists, the student associated with that number will be added to the selected student cell.