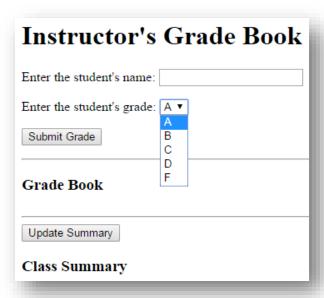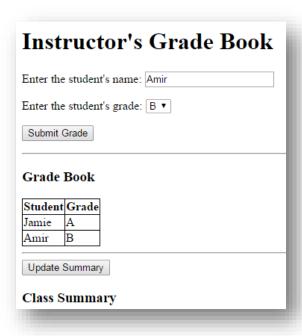## CPSC 1045: In Lab Exercise 9 [10 marks]

Complete this exercise individually. Please follow the instructions **carefully** and complete all of the steps.

1. Create new HTML and JavaScript files. Reproduce the following HTML page:

2. Then in the JavaScript, create a global 2D array to store the students' names and grades in.
3. Create a function that executes when the Submit Grade button is pressed. The function should store the name from the text field and the grade from the dropdown into the grades array, and display the contents of the array **neatly** (UL **OR** table) on the HTML page.

4. Create a second function that executes when the Update Summary button is clicked. This function should loop through the grades array and **count** the number of A's, B's, C's, D's and F's that are stored in the array, and display a summary of this information on the HTML page.

Instructor's Grade Book

Enter the student's name: Harold

Enter the student's grade: F ▾

Submit Grade

Grade Book

Student	Grade
Jamie	A
Amir	B
Colleen	C
Danny	D
Ward	F
Harold	F

Update Summary

Class Summary

A: 1 B: 1 C: 1 D: 1 F: 2

5. When you have completed the exercise, show the instructor or the Lab Assistant that you have finished.
   - 2 marks HTML page
   - 1 marks for global 2D array
   - 2 marks for submit grade function
   - 2 marks for neat display of grades
   - 2 marks summary function
   - 1 mark display summary
   - **Bonus: 2 marks** for adding an "Undo" button that removes the most recent student grade from the array and updates the display.