

MAPS — STUDENT GRADE MAP (PART 1)

Lab Description : Write a program that keeps a map in which both keys and values are strings—the names of students and their course grades. Prompt the user of the program to add or remove students, to modify grades, or to print all grades. The printout should be sorted by name and formatted like this:

Student Grade List

John: B
Kelly: A
Carl: B+
Joe: C
Sarah: A

Lab Directions : Include the following methods in addition to your main method.

```
/**
 Prints the options menu and returns the letter that the user types does not check for
 invalid selection
 @return the next token on the input stream
 */
public static String printMenuAndGetChoice()

/**
 Prints the students and grades
 @param gradeMap the map to print
 */
public static void printGrades(Map<String, String> gradeMap)

/**
 Modifies an entry based on user input. Prints an error if an invalid student is
 modified
 @param gradeMap the map to modify
 */
public static void modifyStudent(Map<String, String> gradeMap)

/**
 Removes a student from the map based on user input
 @param gradeMap the map to remove the student from
 */
public static void removeStudent(Map<String, String> gradeMap)

/**
 Adds a student based on user input. Prints an error if a student
 is added that already exists in the map.
 @param gradeMap the map to add the student to
 */
public static void addStudent(Map<String, String> gradeMap)
```

