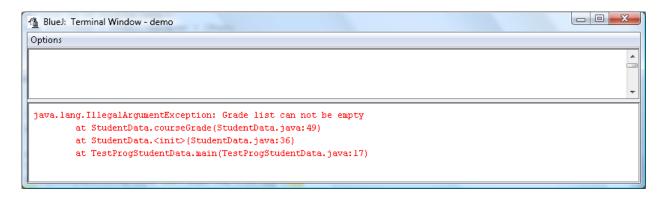
## 19.01 Assignment Instructions

**Instructions**: For this assignment, you are going to use assertions and exceptions.

- 1. Create a folder called **19.01 Assignment** in your Module 19 assignments folder.
  - Create class called StudentData.
  - b. StudentData will need instance variables firstName, lastName, testScores, and grade (of types String, String, double[], and char accordingly).
  - c. StudentData will need appropriate methods and constructors. Make sure to have a toString() method that prints the music in the following format:

    John Doe 89.00 78.00 95.00 63.00 94.00 B
    Save the class as StudentData.java.
- 2. You are going to modify your StudentData.java to make sure that you include assertions and then throw exceptions accordingly.
  - a. Add a method called **courseGrade** (**double** [] **list**) that assigns the student a grade based on the average of their test scores contained in list. You should throw an illegal argument exception if the list is empty.
  - b. Modify your constructor to assign the grade after placing a call to courseGrade() passing it testScores.
  - c. Modify your constructor to test to make sure than when a name is assigned to a student using the constructor, it is tested to make sure that firstName and lastName are not assigned empty values.
  - d. Test your program and make sure your methods work. Save your test class as **TestProgStudentData.java.**

Your output when testing might be similar to this:



After you have tested your program's exception handling, a valid output (that works) might look like this:

