IST 209 Assignment #2

25 April 2008

Simple user input and evaluation

You must upload the Java source file through the class' web server at siu.globaleyes.com prior to midnight on 25 Apr.

Develop a simple Java application which will begin by asking the user 2 questions:

1. What letter grade do you expect to get?
2. How many grades do you need to enter?

After the user has specified the number of grades they need to enter, **FOR** each of the grades ask the user what numeric grade they have received (e.g., if they specified 5 grades to be entered, ask the user 5 times for their numeric grade). Once they have input their number grades, calculate their average score.

Use the average to determine if they are getting better than the letter grade they were expecting, getting the grade they were expecting, or getting worse than the grade they were expecting and print out an appropriate message (e.g., "Congratulations, you are getting the grade you wanted!", etc.). You will get bonus points for using a `switch` construct appropriately somewhere in this test.

Grading Scale	
90.0–150.0%	A
80.0–89.99%	B
70.0–79.99%	C
60.0–69.99%	D
0.0–60.00%	F

You must also validate that all of the user's input is appropriate for the questions being asked (e.g., letter grade must be between A-F case insensitive, number of grades to enter must be greater than 0, and the number grades must be between 0 and 150).

Note: Your assignment will be graded along 3 primary facets.

Category	Criterion	Value
1. *Correctness*	does it compile and produce the correct results	75 points
2. *Style*	comments, use of whitespace, variable and method names	15 points
3. *Robustness*	Is the code reusable? Does the code use the language constructs effectively? Is the code efficient?	10 points