

Assignment 05 – Java Concepts, Chapter 05: Decisions
Due: Oct 12

Exercise P5.5 & P5.6 pg 198

Goal: practice programming conditional logic, getting input from the user & using flow charts

Read the exercises. You will be implementing both the **getNumericGrade** method and the **getLetterGrade** method in a single class called **Grade**. **getLetterGrade** should use the grade cut offs as described in P5.5. Note that both methods should be static methods.

An incomplete tester class is provided on the course homepage. You will need to add some code in order for it to get user input. You do not need to add any documentation comments to the tester. Review section 4.7 for information on how to get user input.

You will also need to produce two flow charts – one for **getNumericGrade** & one for **getLetterGrade**. While not required, I strongly recommend drawing out the flow charts before you start programming. Make sure your flowcharts are legible and use the proper diagramming conventions as discussed in class. Your flowcharts are due at the beginning of class.

Notes:

Make sure to add documentation comments to your classes and methods.

You should check the size of a String before trying to get characters from it – asking for the 2nd character when there is only one character present will cause your program to crash!

In the text P5.6 mentions breaking ties in favor of the better grade. You don't need to worry about this; instead you can use the same cutoffs as described in P5.5

Put a copy of your **entire project folder** into a **.zip** file named **CS125-AXX-YOURNAME.zip**, replacing **YOURNAME** with your actual first and last name & **XX** with the assignment number.

Upload the **.zip** file to Moodle.

The following rubric will be used for grading:

Description	Points
Correct filename(s) are used	1
Source code content – expected methods are coded	2
Flow charts are correct	4
Source code compiles without errors	2
Program gets user input	1
Program executes	1
Program output is correct	4
All classes are documented	1
All methods are documented	2
All parameters and return values are documented	2
TOTAL POSSIBLE POINTS:	20