

Assignment 05 – Java Concepts, Chapter 05: Decisions  
Due: Friday, Oct 24th.

Exercise P5.5 pg 198

Read the exercise. Produce a flow chart for your program – MS Office has some built in flow chart tools under the insert tab. I like to use the ones in Excel, but Word would also be fine. Save your document as **Flowchart**. Implement the class as described in the exercise. Be sure to include documentation commenting. Review section 4.7 for information on how to get user input.

Notes: you do not need to submit a tester class for this assignment, but you might want to build one anyway to check your code, especially if your IDE doesn't allow you to directly interact with objects.

Also, if you are experimenting with additional techniques (dialog boxes for input, etc), implement them in a separate class called **AdvancedGrade**. The **Grade** class should be implemented as described in the text. **AdvancedGrade** should be well documented and may have an accompanying **AdvancedGradeTester** if you feel it to be necessary to demonstrate its functionality.

Put a copy of your required source code file(s) (**Grade.java**), any **Advanced** code file(s) (if you made any) & your flow chart into a **.zip** file named **CS125-A05-YOURNAME.zip**. The only thing in the zip should be a couple of source files, your flowchart & possibly a folder. Note: if you have trouble creating zip files in the labs, refer to my tutorial on my CS104 course page.

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

The following rubric will be used for grading:

<b>Description</b>	<b>Points</b>
Correct filename(s) are used	<b>1</b>
Source code content – at least 1 method & constructor in Grade	<b>2</b>
Flow chart is correct	<b>3</b>
Source code compiles without errors	<b>3</b>
Program gets user input	<b>2</b>
Program executes	<b>2</b>
Program output is correct	<b>4</b>
All classes are documented	<b>2</b>
All methods & constructors are documented	<b>4</b>
All parameters and return values are documented	<b>2</b>
<b>TOTAL POSSIBLE POINTS:</b>	<b>25</b>
<b>Extra Credit:</b> AdvancedGrade class submitted and extends the functionality in some significant way	<b>2</b>