

CST8110 – Introduction to Programming

Assignment #1 – Arithmetic/Problem Solving

DUE: Friday June 8th at 11:59pm SHARP – see submission instructions below. Late submissions receive a grade of 0.

Problem Description:

Write a **Java program** to solve the following problem: Calculate your Database final grade based on the following:

Assessment	Percent
Lab Activity(ies)	10%
Quiz(zes)/Test(s)	10%
Assignment(s)	20%
Midterm Exam(s)	20%
Final Exam	40%

Theory grade is the quiz/test, midterm and final exam marks.
Practical grade is the assignment and lab marks.
Final grade is all five marks.

User interaction **must** be as follows the following:

Sample Output #1: (Red indicates user entered information)

Welcome to the CST8215 Final Mark Calculator

Enter your Lab mark out of 10: 7.5
Enter your Quiz/Test mark out of 10: 5
Enter your Assignment mark out of 20: 18
Enter your Midterm mark out of 20: 15
Enter your Final Exam mark out of 40: 32

Theory grade: 74.29%
Practical grade: 85%
Final grade: 77.5%

Sample Output #2:

Welcome to the CST8215 Final Mark Calculator

Enter your Lab mark out of 10: 5
Enter your Quiz/Test mark out of 10: 5
Enter your Assignment mark out of 20: 10
Enter your Midterm mark out of 20: 10
Enter your Final Exam mark out of 40: 20

Theory grade: 50%
Practical grade: 50%
Final grade: 50%

Submission Requirements:

- You must create a .zip file that contains ONLY the following:
 - Your program code - named Assign1.java - (with your name, section, lab teacher, purpose of program, assignment number and date listed in comments in the header of the program) Note - to find the .java file - Using Windows Explorer - look in the project folder (directory) in the workspace folder (directory) where you stored the program. Right click on the .java file and select "Add to Archive". Change the name as indicated below - and then select OK.
 - A document created with either Notepad, WordPad or Word named Assign1.docx or Assign1.txt with your test plan
 - This should contain your name, section and lab teacher listed at the top.
 - An initial test plan has been provided to get you started.
- The .zip file must have the following as its name
 - Your last name, your first name, the word Assign and the assignment number.
Example: RosenblumHowardAssign1.zip
- Submit the .zip file through the Assignment feature which has been enabled in the CST8110 Brightspace course. This should be directly under the Assignment description.
- You may upload as many assignment solutions as you wish, but only the last one will be graded.
- Marks will be given for correct submission (i.e. marks will be deducted for incorrect submission!)