CSCI 2302

CSCI 1302 Review

Implement a program, Review1302.java to solve the following problems. Once you have completed all the problems, submit the Review1302.java in the D2L Dropbox.

This is to test your knowledge from CSCI 1302.

1. Write the block of code that will compute someone’s letter grade from a number grade. Define and assign a value to a variable, grade, which contains an integer representing the number of the person’s grade. You are to write the code that will display the appropriate letter based on the number. (A:90-100, B:80-89, C:70-79, D:60-69, F:59 and under). 5 points
2. Write a block of code that displays the text “Welcome to CSCI 2302” 1854 times. 2 points
3. Using a comment, explain the differences between a for loop, while loop, and do-while loop. 3 points
4. Implement the following in a for loop then in a while loop: 5 points each
   1. An average method that accepts nothing and returns nothing; it sums the numbers until the user wants to quit then displays the average of those numbers.
5. For the following problems, write the appropriate method to perform the task then invoke the methods in main. 3 points each
   1. A sum method that accepts 3 integers and returns the sum of those numbers, an integer.
   2. A concatenate method that accepts 4 strings and returns the two strings as a single string.
   3. A print method that accepts a character array, prints the entire contents from beginning to end, and returns nothing.
   4. A print method that accepts a character array, prints the entire contents from the end to the beginning, and returns nothing.
   5. A convert method that takes a string and returns an integer, which is how many characters were in that string.
6. For the following, implement the code: 5 points
   1. Create an array of integers that contain the following numbers in this order: 1, 4, 5, 23, 3, 7, 98, 0.
   2. Define and invoke a method to display the largest value in the array and display the index of that value in the array that was created in step a.
7. Implement a method that will accept a double and a String and returns a double. 5 points

The method will convert feet to yards or yards to feet depending on the measurement

1. If the measurement is in feet, then the converted measurement will return yards.

yards = feet \* .3333

1. If the measurement is in yards, then the converted measurement will return feet.

feet = yards \* 3

1. Define and invoke a method that will complete the following: 5 points
   1. Read from a file, TheLetterA.txt and write to a file, reout.txt
   2. The method will display how many occurrences of the letter ‘a’or ‘A’.