## CIS280 Project #1 (Chapters 1 and 2)

Name(s):	Due:
tanie(3)	

## **Personalization and Commenting Requirements:**

- All source code must contain a comment with the source file name, programmer(s) names(s) and date created
- Commenting at top should include the purpose of the program
- Appropriate, clear commenting must be used throughout the code; be professional and pay attention to spelling
- All applications should start with an output to the screen that contains the name of the application and the programmer(s)
- Name the programs as shown on this project sheet
- 1. *Output.java* Console application This program utilizes the Scanner Class to ask the user for two Strings and an integer and then uses <u>System.out.println</u> to display three lines of output.
  - a. Ask user for their name, which is to be a String
  - b. Ask the user for their major, which is to be a String
  - c. Ask the user for expected graduation year, which is to be an integer
  - d. Output the data on three separate lines using System.out.println
- 2. Output2.java Console application modify #1 to use <u>System.out.print</u> to display the same three separate lines of output.
- 3. Output3.java Console application modify to use ONE System.out.println statement to output the data as such: (Where the X's represent the data inputted by the user)

Hello, my name is XXXXXXXXXXXX, my major is XXXXXXXXXXXXXXX and I expect to graduate in XXXX!

- 4. *Study.java* -- Console application --- This program asks the user for the number of credits in a course and the name of the course, calculates study hours, and displays the results.
  - a. Use the Scanner class to input the following data, in this order:
    - i. Ask user for the number of credits for a course they are taking, which is an integer
    - ii. Then, ask for the name of the course, which is to be a String
  - b. Calculate the study hours, which is the number of credits multiplied by 3
  - c. Use System.out.println to display the study hours along with the number of credits and course name on one line of output, such as: (Where X's represent the calculated study hours and name of the course)

You should expect to spend XX hours each week studying for XXXXXXXX, plan ahead.

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- 5. StudyDialog.java modify Study.java into StudyDialog.java which is a GUI application
  - a. Use an input dialog box to gather the inputs (number of credits and name of course)
  - b. Use a message dialog box to display the results include all three items in the dialog box
- 6. *Tuition.java* Console application this program asks the user for the total number of credits they have registered for, calculates the tuition, adds the necessary fees, and displays the total owed for the semester.
  - a. Use Named Constants for:
    - i. Tuition Rate, which is 503.95 (per credit)
    - ii. Facility Fee, which is 10.00 (per credit)
    - iii. Parking Fee, which is 60.75 (per semester)
    - iv. Registration Fee, which is 45.00 (per semester)
  - b. Use the Scanner class to gather the input, which is the total number of credits the student has registered for, this should be an integer.
  - c. Calculate the tuition.
  - d. Calculate the total owed, which should be a float.
  - e. Display the total number of credits, tuition amount, facility fee, parking fee, registration fee, and the total owed. <u>Demonstrate the use of both System.out.printf and String.format in your solution</u>.
    - i. Displayed amounts should include commas where appropriate, and be displayed with two places behind the decimal, output should be presented in an easy to read fashion.
    - ii. Total owed should include a dollar sign.

## **Submission Requirements:**

• Zip your .java source files into a folder labeled with your name(s) and project number. Submit this zipped folder in Blackboard. Please use the onboard zip utility in Windows rather than a third-party product.