1007 – Introduction Object Oriented Programming and Design Spring 2006 Shlomo Hershkop

Homework 0 Intro 0 credit homework

Reminder: Grading includes comments and well organized code (i.e. nicely formatted).

1) Write a simple class called Example1 which prints a welcome statement and asks the user for their first name, last name, and their age (3 inputs). Then make sure the first and last name are titled correctly (upper character followed by all lower case) and print out a message saying hello person's name, you are X years old, and then a unique message based on their age (based on ranges).

Hint: use the scanner class to get input.

- 2) Do the same problem again (call the class Example2, except do not use the Scanner class to get the input. In addition you should throw an exception if there are errors in the input.
- 3) Write a program called Example 3 which opens a file and counts the number of lines and number of characters in the file. The name of the file should be passed in as a command line argument.
- 4) Create a class to represent a simple student (Student.java) with an ID, date of record, name, and total GPA. Create appropriate methods to allow public manipulation of adding grades and courses which will allow the GPA to be adjusted as needed.

Define a toString method which gives a total history of all information present, and a printShorthistory to show snapshot information: (name,date,GPA).

HINT: that is the GPA should be calculated based on all their grades at any given time.

Create a test class (TestStudent.java) to create a student, add some grades, show some information about the Student, and then add more grades and show how the information has changed.

5) Create a simple graphical window Example5.java with a single button which changes the background when you click on it.

Solutions will be posted online for the sample homework.