

LAB 3

Section 2

Mar. 8, 2016

Write a program that computes taxes according to the following scheme. Your program takes the marital status and the income values from the user and prints the amount of tax due.

If the marital status is Single;

Income \leq \$8,000 Tax is 10% of income

Income $>$ \$8,000 Tax is \$800 + 15% of income

If the marital status is Married;

Income \leq \$16,000 Tax is 5% of income

Income $>$ \$16,000 Tax is \$1,600 + 15% of income

You should define a class to model a tax payer. A constructor of this class should take marital status and income value as parameters. You should also define a method `getTaxValue()` that returns tax value due. You can use the `equals` method of the `String` class to test if two strings are equal. For example, `ms.equals("Single")` returns `true` if the string `ms` is `"Single"`, `false` otherwise.

You should also define a tester class that gets marriage status and income value of user, then calculate tax value of user by using other class' `getTaxValue()` method.

Sample run 1:

Enter user status: **Single**

Enter user income: **5000**

The tax is 500.00

Sample run 2:

Enter user status: **Married**

Enter user income: **20250**

The tax is **4637.50**

You can use only the features (techniques, classes, methods and statements) that are covered in the class. After finishing your work, select your folder (e.g. Lab03), then right click and select "Send to" option. Click "Compressed (zipped) folder". Rename your zip file as "Lab03_Surname_Name". Note that, your file type is "zip", namely your file name will not be "Lab03_Surname_Name.zip". Upload your zip file to Unilica. Note that you must upload your file before 11:40; you cannot upload your file after that time.