**CSC 201 – Program Assignment Submission Sheet**

**1. Problem Statement**

Calculate the simple interest by asking user for principal, rate and time.

**2. Input/Output Description**

Values for principal, rate and time respectively 🡪 COMPUTER 🡪 Simple Interest calculated from values inputted

**3. Hand-Worked Examples** (at least two; also to be used as tests, below, in Step 6)

**4. Algorithm Development (Decomposition Outline)**

1. Ask user for principal amount in dollars.
2. Ask user for rate as a percentage.
3. Ask user for time in years.
4. Convert values to integer and float.
5. Divide the the float for percentage by 100 to get decimal form and assign a variable.
6. Multiply the principal, rate in decimal form, and time in years.
7. Divide the sum of step six (product of principal, rate, time) by 100 to get the simple interest.
8. Print out final answer to user.

**5. Program Source Code**  *Attach* sheet(s) of your source code printed from the IDE. (Do not *include* code here!)

**6. Test(s)** Include here or attach sheet(s) of “cut-and-pasted” results from the console window and printed from MS Word using a fixed-width font. Also, remove excessive vertical whitespace to save paper.

Welcome to the Simple Interest Calculator!

Please enter the principal(dollars):10000

Please enter the rate of interest(percentage):12.5

Please enter the time(years):5

Your simple interest is: 62.5

>>> float\_rate

12.5

>>> format\_percentage

0.125

>>> int\_principal

10000

>>> int\_time

5

>>> product\_of\_all

6250.0

>>>