

# Java for Non Majors

CGS 3416: Fall 2015

Department of Computer Science, Florida State University

Homework 1: 100 points

Due date: 11:59 PM 09/11/2015

## 1 Objective

The purpose of this assignment is to just familiarize yourself with the Java programming environment and compiling and running Java programs on the terminal. If you're not using a Computer Science account and a file transfer client, this would also serve as a good way to test if the Java environment you've set up on your local machine works as expected.

Please email your file "InterestCalculator.java" to [jayarama@cs.fsu.edu](mailto:jayarama@cs.fsu.edu)

## 2 Where's my money Denny?

### The Backstory

Denny's borrowed some money from Chris-R for assorted purposes. He's missed several deadlines and Chris wants his money back pronto, with interest. However, Denny can't math. Your job is to write a Java program to calculate how much money Denny owes.

### The Assignment

- Create a class called InterestCalculator. (20 points)
- In the main method, declare integer variables 'amount' and 'months' give them the values 10000 and 8. (10 points)
- Declare double variables 'rate', 'interest' and 'total'. Let 'rate' be 18. (10 points)
- Calculate the interest. Chris-R is feeling generous and is only calculating simple interest. Use the formula:  
`interest = ( amount * months * rate ) / 1200` (15 points)
- Calculate the total Denny owes. `total = amount + interest` (15 points)
- Print the interest and the total amount, in a way that matches the sample run. (20 points)
- Please add your name and FSUID as comments on top of your programs.
- Please add comments wherever appropriate. (10 points).

You should have tested your program thoroughly before you turn it in. Each compiler error will result in a 10 point penalty.

## 3 Sample Run

```
:~$ java InterestCalculator
Interest = $1200
Denny owes $11200
:~$
```