

ITP 365: Introduction to C++ Programming

Lab Practical 4

Due: EOC (End of Class)

Goal

You'll write our own **Money** class today for lab. You'll be implementing US dollars.

Setup

- Create a project for your platform and import the given file – no starter project is needed for this lab.
- You already have **money.h**. From this you are to write your own implementation file (**money.cpp**) and a tester program (**main.cpp**) to mimic the output shown below.
- At the top of every file make sure you add comments in the following format (using your name, email, and specify whether you did your work on Windows or Mac):

```
// ITP 365 Spring 2017
// LP4 – Money
// Name: Tommy Trojan
// Email: ttrojan@usc.edu
// Platform: PC
```

Requirements

money functions:

- Use the function headers and the natural expectations of what the operators should do to implement the functions for the **Money** class.
- NOTE: For output, don't worry about leading / trailing 0's in the cents field
- HINT: There is a way to write this so fractional dollars and cents over 100 are handled only once.
- HINT: For input, it's a GoodIdea™ to write the **operator>>** so it accepts a decimal number. It "feels" more natural that way.

main function:

- Make any variables you need to complete the lab to mimic the output below. Use only the functions and operators given to you in **money.h**.

Sample output

Below is an abbreviated version of the program's output. User input is in **red**.

How much money do you have? **57148.15**

How much money does your spouse have? **388168.98**

How many kids do you have? **4**

Split evenly, your kids will all get \$111329.28 if you both died today.

Deliverables

1. A compressed folder containing only the files **main.cpp** and **money.cpp**. It must be named **Lab4**.