

## Homework #1 – Counting Change

**DUE:** September 10 by 11:59:59 PM

**Assigned:** September 3

### Background

The program will prompt you to enter quantities of coins and tell you how much money you have.

### Assignment Requirements

- The name of your source code file shall be `hw01.cpp`
- The program is only required to work if the numbers entered by the user are zero or positive integers
  - If a negative number is entered, the user must be presented with an error message, and that input will be treated as a zero
  - Error messages should be printed to the error stream using `std::cerr`

### Sample Runs

Please enter the number of

Quarters: 2

Dimes: 2

Nickels: 2

Pennies: 2

You have 82 cents.

Please enter the number of

Quarters: 2

Dimes: -3

Negative dimes treated like 0.

Nickels: 2

Pennies: -1

Negative pennies treated like 0.

You have 60 cents.

Please enter the number of

Quarters: 1

Dimes: 0

Nickels: 0

Pennies: 0

You have 25 cents.

### Hints

- This assignment is a bit repetitive
- **FUTURE HINT:** Save this assignment. It will be re-visited.

- **GENERAL HINT:** Save all your assignments, do not modify them after the due date

### Reminders

- Be sure to include a comment block at the top of every file with the required information
  - Refer to the General Homework Requirements handout on Blackboard
- Provide meaningful comments
  - If you think a comment is redundant, it probably is
  - If you think a comment is helpful, it probably is
  - Remember that you are writing comments for other programmers, not people who know nothing (obligatory Jon Snow) about coding
  - Comments are more helpful when they explain why, not what or how
- There will be no extensions

### Preparing and Submitting

- Your code must be able to compile and run on the EECS lab machines
  - You are responsible for testing your code
  - “But it runs fine on my machine!” will **not** earn you any points
- Submit **ONLY** your source code file (File with extension .cpp)
- Homework will be submitted via Blackboard