# LAB ASSIGNMENT 3.3

# Coins

**Background:**

Inside your DataTypes project, create a new class called Coins.

Some cash register systems use change machines that automatically dispense coins. This lab will investigate the problem solving and programming behind such machinery. You always want to use the fewest coins possible. You should use integer mathematics to solve this problem.

Provide the number of cents through the constructor. Write a method that calculates the number of each type of coin.

Examples:

35 cents =>

Quarter(s) 1

Dime(s) 1

Nickel(s) 0

Penny(s) 0

41 cents =>

Quarter(s) 1

Dime(s) 1

Nickel(s) 1

Penny(s) 1

**Assignment:**

1. Make sure your name is documented near the top of your source code.
2. Run the samples from above to check your work.
3. Run the following three samples and copy the sample runs into your class file, print out the code for the class and hand in.

94 cents

59 cents

19 cents

1. Do not worry about singular versus plural endings, i.e. quarter/quarters.