

**MS-382**  
**Java Program #2**  
**Simple Logic & Expressions**

**Date Assigned:**      **Monday, October 9, 2006**  
**Date Due:**            **Monday, October 23, 2006**

The purpose of this program is to use numeric expressions and the proper logic structures to solve a simple problem. We wish to compute the change due a customer for items selling for \$1 or less. For instance, the following console I/O illustrates the program's purpose:

```
Enter cost of item (in cents <= 100): 12

Change is 88 cents and consists of:
  3 quarters
  1 dime
  3 pennies
```

After the prompt to ask the user for the purchase price, the user simply entered the purchase price in cents (12 cents) and the program tells the user how to dispense the change (i.e. how many coins of various denominations must be given in change).

Notice that the program does not output a coin denomination if it is not contained in the change due the customer (i.e. no nickels above). Also, notice that the form of the noun is singular if there's one (i.e. 1 penny), and plural if there's more than one (i.e. 3 pennies). Your program should reproduce this behavior exactly. To do this, you'll find if-else statements to be useful.

When finished, zip up your well-commented source files along with your report and email them to [blessing@msoe.edu](mailto:blessing@msoe.edu).