Lab 02

CS 140

Change Calculator

# Description:

Assume you are working as a bank teller. A patron comes into the bank and wishes to withdraw a very specific amount of money from their account. They do this every day for quite some time. Each day this person has interesting stories to tell about their day. This keeps causing you lose track of the calculation for making most efficient change. Finally, you decide with your knowledge of Java you could come up with a calculator to report to you how much of each denomination of currency you should give to them.

# Problem:

Your task is to write Java code to complete the provided code file in order to complete the currency calculator.

# Instructions:

Design this program within the provided skeleton file. Fill out the code to solve the problem. You will be expected to demonstrate your knowledge of variables and expressions. Please make sure that name of the skeleton file is **ChangeCalculator.java** before beginning work. When you have a completed solution, make sure your file is properly commented and turn it in on canvas.

# Program flow:

First the program should prompt the user for input of a decimal number. The program should take that number process the amount for each currency denomination by executing the appropriate calculation and printing the result if need be.

# Example run:

Please enter a dollar amount: $5465.32

Your change is:

54 hundreds

1 fiftys

0 twentys

1 tens

1 fives

0 ones

1 quarter

0 dimes

1 nickels

2 pennies

**Note:** You will find modulo (% operator) useful in solving this problem.