Engr 123 **January 9, 2017**
Assignment 1 **Due: January 18, 2017**
Lines

Reminder: This is a programming project, and work on this assignment should be done individually. Assistance from other students is limited to questions about specific issues as noted in the syllabus.

Write a C# console program to input two doubles. The first represents the price of an item and the second is the amount of money being paid. Your program should issue the proper change which includes the number one dollar bills, the number of quarters, the number of dimes, the number nickels, and the number of pennies. All of the output numbers should be integers with appropriate comments.

For example, your program output might look like this:

```
Enter the price of the item: 6.53
Enter the amount paid: 10.00
Your change is:
3 ones
1 quarter
2 dimes
0 nickels
2 pennies.
```

If the first number entered by the user greater than the second, your program should print the message: `Not enough money offered.`

The next page has a design for the solution to this problem. Follow the program design and write the implementation code as a console application in C#.

After you get your program running correctly, right click on the *project folder* and choose Send To → Compressed zip file. Rename the compressed zip file as Asn01XXX.zip where XXX are you three initials. Upload the renamed file to \\cecsfp01\users\everyone\engr123.

```
Name: Joe Student
Date: January 18, 2016
Assignment: Assignment 1

   This program inputs two doubles representing the cost of an item and
the amount being paid.  I prints the correct change.
```

Design

```
 main()
  {Issue prompts for the item cost.
   Input the cost as a double
   Issue a prompt for the amount paid.
   Input the paid amount as a double.

   if (cost is greater than the amount paid)
     {Print message indicating not enough money paid in.
     }
   else
     {calculate the change.
      ones = integer part of change
      change = change – ones
      quarters = (integer part of change * 100)/25
      change = change = .25 * quarters
      dimes = (integer part of change * 100)/10
      change = change - .10 * dimes
      nickels = (integer part of change * 100)/5
      change = change - .05* nickels
      pennies = 100 * change
      print ones, quarters, dimes, nickels, and pennies with
         an appropriate message
     }
   return;
  }  //End of main code
```

Note that because of round off error with floating point numbers you may be off by a penny or two. This could be fixed by working with all integers but that is not necessary for this problem.