CS 210 - Fundamentals of Programming I  
Spring 2013 - In-class Exercise 2 for 01/09/2013 & 01/10/2013

(10 points) Write a program that implements a solution for the following problem statement. Use comments to indicate the analysis and design for the program. Successfully submit this program to the automated testing system. Answer the questions on the back of this sheet.

**Problem Statement**
Write a program that calculates mileage reimbursement for a salesperson at a rate of 45 cents per mile. Your program should interact with the user in the following manner (user input shown in **bold**):

**MILEAGE REIMBURSEMENT CALCULATOR**
Enter the beginning odometer reading: **13505.2**  
Enter the ending odometer reading: **13810.6**

The distance traveled is 305.4 miles.  
At $0.45 per mile, the reimbursement is $137.43.

**Analysis & Design**
The analysis phase identifies the data needed or computed by the program. The design phase identifies the steps to compute the solution.

**Implementation**
After developing the analysis, constant and variable declarations are written. After developing the design, coding techniques necessary to complete the steps are written.

**Submission**
Make sure that your name is in a comment at the beginning of your program file. Reminder: the submission system requires that the output format (including spelling, capitalization, spacing, and punctuation) must exactly match the example given. If the computed parts appear to be correct, then check for errors in formatting, spelling, capitalization, and whitespace.

Detailed instructions on how to use the automated testing system can be found in the on-line document **Submission Instructions** on the course webpage. A link to the submission system (submission.evansville.edu) can be found on the course webpage.

When you have submitted this program successfully and answered the questions on the back, you are dismissed for today.
Name: ______________________________________

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Answer the following questions regarding the program written for this class. Turn in this sheet after you have submitted your program successfully.

1. What is the type of the variables in this program?

2. What kind of values can the variables hold?

3. What is the input statement for reading in the beginning odometer reading?

4. What is the output statement for displaying the distance traveled?

5. What arithmetic operators are used in this program? What operations do they perform?