Robert Skelton
11.4.13
Homework 2

Initial run as user Robert (actual highway gas mileage in my car):

```
rjs0015@tux190:~$ g++ skelton_hw2.cpp
rjs0015@tux190:~$ ./a.out
What is your name? Robert
*** Welcome to Robert's Mileage Tracker ***

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 1
        The odometer is reset to 0

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 2
Enter the fuel efficiency in miles per gallon: 22

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 3
Enter the fuel price per gallon: 3.99

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 4
Enter miles driven for a trip: 550

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 5
Total miles travelled: 550 miles
Number of gallons consumed: 25.00 gallons
Total cost of gasoline: $99.75

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 6
        **** Good-bye ****
```

Second run as user Johnnie, added multiple trips:

```
rjsw015@tux190:~$ ./a.out
What is your name? Johnnie
*** Welcome to Johnnie's Mileage Tracker ***

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 1
        The odometer is reset to 0

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 2
Enter the fuel efficiency in miles per gallon: 15

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 3
Enter the fuel price per gallon: 3.15

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 4
Enter miles driven for a trip: 150

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 4
Enter miles driven for a trip: 170

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 4
Enter miles driven for a trip: 500
```

```
1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 4
Enter miles driven for a trip: 20

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 5
Total miles travelled: 840 miles
Number of gallons consumed: 56.00 gallons
Total cost of gasoline: $176.40

1) Reset the odometer
2) Set the fuel efficiency in miles per gallon
3) Set the fuel price per gallon
4) Enter miles driven for a trip
5) Print the total miles, number of gallons, and cost of gasoline
6) Quit
Select an option: 6
        **** Good-bye ****
```

This was compiled and run on tux190 in Davis 123. There was no errors or warnings, and the program runs as expected. Gallons of gas and total cost of gas values are shortened to decimal points.