

### Problem #1:

```
1 //DO NOT MODIFY THIS SECTION
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     double carHold, carTravel, milesPerGalon;
7     //ADD YOUR CODE FROM HERE
8     carHold = 15.0;
9     carTravel = 375.0;
10    milesPerGalon = carTravel / carHold;    //calculates the miles per gallon
11
12    cout << "The car gets " << milesPerGalon << " miles per galon.";
13    return 0;
14 }
```

Microsoft Visual Studio Debug Console

The car gets 25 miles per galon.  
C:\Users\Kolbe Williams\OneDrive\Documents\College Classes\C++\HW1\CPP\_HW1\x64\Debug\CPP\_HW1.exe (process 19388) exited with code 0.  
Press any key to close this window . . .

### Problem #2:

```
1 //DO NOT MODIFY THIS SECTION
2 #include <iostream>
3 using namespace std;
4 const double BROKER_COMM = 2.0;
5 int main()
6 {
7     double shares, pricePerShare;
8     double amountPaid, amountComm, totalPaid;
9     //ADD YOUR CODE FROM HERE
10    cout << "Enter the amount of shares bought: ";
11    cin >> shares;
12    cout << "\nEnter the price per share in dollars: ";
13    cin >> pricePerShare;
14
15    amountPaid = shares * pricePerShare;    //calculates the amount paid in stocks alone
16    cout << "\nThe amount paid for the stock alone is: $" << amountPaid;
17    amountComm = amountPaid * (BROKER_COMM / 100);    //calculates the amount paid in commission
18    cout << "\nThe amount of commission is: $" << amountComm;
19    totalPaid = amountPaid + amountComm;    //calculates the total amount paid
20    cout << "\nThe total amount paid is: $" << totalPaid;
21    return 0;
22 }
```

Microsoft Visual Studio Debug Console

Enter the amount of shares bought: 100  
Enter the price per share in dollars: 5  
The amount paid for the stock alone is: \$500  
The amount of commission is: \$10  
The total amount paid is: \$510  
C:\Users\Kolbe Williams\OneDrive\Documents\College Classes\C++\HW1\CPP\_HW1\x64\Debug\CPP\_HW1.exe (process 15116) exited with code 0.  
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