```
Hw Problem 1.1
```

```
// Filename: HW01 1.cpp
// Programmer: Duncan McFarlane
// Date: 1/23/2020
// Compiler Used: MS Visual Studio 2017
// Purpose: Convert feet to meters
#include <iostream>;
using namespace std;
int main() {
       double feet = 0.0;
       //Input:
       //Get the number of feet to convert
       cout << "Enter a value for feet:";</pre>
       cin >> feet;
       //Processing:
       //Convert to Meters
       double meters = 0.305 * feet;
       //Output:
       //Print the number of meters
       cout << feet << " feet is " << meters <<" Meters";</pre>
       //Indicates that the program ran without any errors
       return 0;
};
Enter a value for feet:16.5
16.5 feet is 5.0325 Meters
Hw Problem 1.2
// Filename: HW01_2.cpp
// Programmer: Duncan McFarlane
// Date: 1/23/2020
// Compiler Used: MS Visual Studio 2017
// Purpose: Convert feet to meters
#include <iostream>;
using namespace std;
int main() {
       double subtotal = 0.0;
       double gratuity = 0.0;
       //Input:
```

//Get the subtotal and the gratuity

// Calculate the gratuity and the total
// Divide the gratuity by 100 because in
// example it is given as a number (IE 12)

cin >> subtotal >> gratuity;

//Processing:

cout << "Enter the subtotal and a gratuity rate:";</pre>

```
// rather than a rate (.12)
gratuity = subtotal * (gratuity/100.0);
double total = subtotal + gratuity;

//Output:
//Print the gratuity and the total
cout << "The gratuity is $" << gratuity << " and total is $" << total;
//Indicates that the program ran without any errors
return 0;
};

Enter the subtotal and a gratuity rate:10 15
The gratuity is $1.5 and total is $11.5</pre>
```