Issue with Printing Booleans

In C++ Booleans accept a value of **true** or **false**, but when you are entering a user input value you must use 0 or 1.

Also, when you print a Boolean to the screen you will see a 0 or 1 displayed.

In programming, **0 is equivalent to false**

1 is equivalent to true

In C++ **true** and **false** are reserved words.

So, you can assign a Boolean a value of true or false.

```
Ex:     bool isMarried;
        isMarried = false;
        //or equivalently
        isMarried = 0;


        bool isMarried;
        isMarried = true;
        //or equivalently
        isMarried = 1;
```

When programming we tend to use false and true because it is easier to read and understand.

But, when you ask a user to enter a value to assign to a bool you must request a 1 or 0.

```
Ex 1 (Wrong):   bool isMarried;
                cout << "Are you married? (Enter true or false)" << endl;
                cin >> isMarried;
```

When you run the program it will look like this:

Are you married?
false   //if this is the user input the program will not work!! (false is read in as a string)

```
Ex 2 (Correct):  bool isMarried;
                 cout << "Are you married? (Enter 1 for true or 0 for false)" << endl;
                 cin >> isMarried;
```

When you run the program it will look like this:

Are you married? (Enter 1 for true or 0 for false)
0   //if this is the user input the program will work!!

When you output the values at the end of HW 1 question 3 it's fine to output the 0 or the 1, for example:

Sample inputs:

First Name? Jim
Last Name? Jones
Phone Number? 7185551234
Is it mobile, home or work? w
Email address? j.jones@gmail.com
Married? 0
Age? 35
Tax rate in decimal? 0.0875

Output format:

Jones, Jim
w: 7185551234
email: j.jones@gmail.com
married: 0
age: 35
tax rate: 8.75%