CSC 142: Computer Programming – HW 3

Possible Points: 25 points   Due Date: February 27, 2015

General:

This homework has the following goals:

- Give you practice checking user input
- Give you practice using relational operators

Assignment:

1. (For 22 points). You are being asked to write a program that prompts the user for his or her name and birthday (month and day only), along with today's month and day. Your program should determine whether or not the user's birthday has already occurred this year. If the user's birthday occurs "today," your program should wish him or her "Happy Birthday" by name. You should decide how to ask for the user input, but in displaying the results of your program, display the dates using full month names. For example, your program's output could look like this:

```
This program accepts the month and day of someone's birthday and determines whether
the birthday has already occurred this year or not

Please enter your name: Anne
First, please enter today's month (as a number from 1 to 12): 2
Now enter the day of the month (as a number) for today: 1
Please enter your birthday month (as a number from 1 to 12): 11
Please enter the day of your birthday (as a number): 3

Your birthday is on November 3
Today is: February 1
You haven't celebrated your birthday yet this year
```

You do not have to use the same wording in your prompts as in the examples above.

Be sure to include if or if/else statements (as appropriate) to check for valid user input. In other words, if you ask for month as a number in a specific range, but the user enters either a string or an out-of-range number, your code should check for this and "reject" the input, instead asking the user to re-enter the requested input. For this program, you may assume that if the user input is initially incorrect, the user WILL ALWAYS enter the correct input the second time. (Later in the class (next chapter!) you will learn how to keep prompting for user input until you get an acceptable value).

2. (For 3 points) Test your code thoroughly to ensure that it works as expected for any input values. Test for 'bad' user input to ensure that inappropriate entries are not passed into your program where they can cause logical errors or failure of program execution. After this test output, include a "Reflections" paragraph describing any issues you had while writing/debugging your program. You will submit a .doc or .txt file for this portion of the assignment.

Details:

Make sure to comment your program to explain how various sections of your program are supposed to work.

Turn In:

Submit your code for this assignment.

Submit your test output and reflections as a .doc or .txt file titled LastName_HW2. (Please replace "LastName" with your OWN last name.)