Lab #11: Basic Input & Output
Pocket Money
(Partner Lab)

Goal

To learn how to read in different types of input and format output.

Instructions

Type the pseudocode, draw a flowchart (using Excel), and then write the code for the problem that follows. **USE the template provided on the next page – Do not change the names of the variables described.** You can use additional variables for processing. Be sure to declare any necessary constants.

Problem Statement

This program will keep track of how much pocket money the user has. Every week the user is given $20.00 of pocket money (this value will not change). This program will obtain from the user the user's full name, amount left from the previous week and the amount spent in the current week. Then it will calculate and output how much money is left.

Output should include **YOUR** class heading (make sure you modify it so that it will output the appropriate information). Line numbers should be displayed with your code and output.
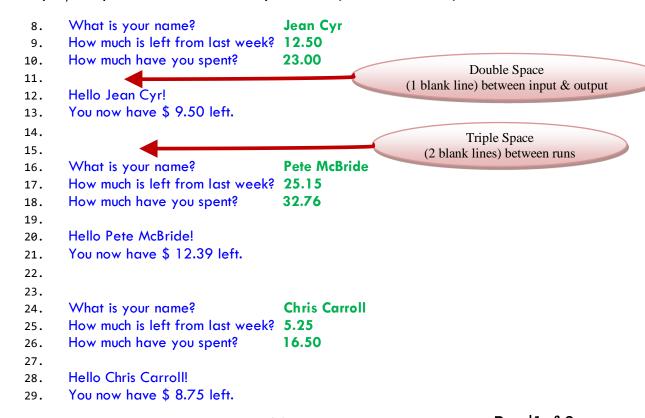
Additional Requirements:

- Use appropriate data types and variable names throughout the code.
- Do not use spaces or tabs for formatting --- use the manipulators discussed in class

Run the code 3 times to produce the following output. You only need to cut and paste the class heading on the first run (The class heading is not included below, but should be on your submission. **Note the spacing**.

EXPECTED INPUT (in green) / OUTPUT (in blue)

Your Input/Output should look exactly like this (but not in color)

```
 8.     What is your name?              Jean Cyr
 9.     How much is left from last week? 12.50
10.     How much have you spent?        23.00
11.
12.     Hello Jean Cyr!
13.     You now have $ 9.50 left.
14.
15.
16.     What is your name?              Pete McBride
17.     How much is left from last week? 25.15
18.     How much have you spent?        32.76
19.
20.     Hello Pete McBride!
21.     You now have $ 12.39 left.
22.
23.
24.     What is your name?              Chris Carroll
25.     How much is left from last week? 5.25
26.     How much have you spent?        16.50
27.
28.     Hello Chris Carroll!
29.     You now have $ 8.75 left.
```

Double Space (1 blank line) between input & output

Triple Space (2 blank lines) between runs

1 –   The first page of the lab with the input and output indicated.

2 –   Flowchart

3 –   Pseudocode

4 –   Output (cut and pasted into a txt file in eclipse)

5 –   Source Code (Make sure your code conforms to the style detailed in the lecture notes
→ including line numbers – **printed out directly from eclipse**

Template

```
/*********************************************************
 * AUTHORS     :
 * STUDENT IDs :
 * LAB #11     : Basic Input & Output
 * CLASS       : CS1A
 * SECTION     :
 * DUE DATE    :
 ********************************************************/
// place preprocessor directives here


/***********************************************************************
 *  Pocket Money Program
 *_____
 *
 *  This program receives the pocket money left over from the previous
 *    week and the amount spent in the current week from the user an
 *    calculates how much pocket money is remaining. Each week the user
 *    is allocated an allowance.
 *_____
 *  INPUT:
 *     name        :  The user's name.
 *     amtLeftover :  Amount leftover from the previous week.
 *     spent       :  Amount spent this week.
 *
 *  OUTPUT:
 *     name        :  User's Name
 *     pocketMoney :  Amount of pocket money remaining
 **********************************************************************/


int main ()
{
    // Declare your constants here include a table describing them


    // Declare your variables here -- include your data table


    /*****************************************************************
     * OUTPUT - class heading (from eclipse lab here)
     *****************************************************************/

    /*****************************************************************
     * INPUT: (description of your input)
     *****************************************************************/

    /*****************************************************************
     * PROCESSING: (description of your processing)
     *****************************************************************/

    /*****************************************************************
     * OUTPUT: (description of your output)
     *****************************************************************/

    return 0;
}
```