Program Logic Using C++
CSC 5 #43620
Spring 2014
Carl Argila

Last Name (PRINT)

First Name (PRINT)

Date

# Project #1 – Basic Input / Output

This program will obtain from the user the user's full name, current annual salary and a percent increase due on that salary. Assume that the new pay rate should have been in effect on January 1, and it is now July 1 (6 months later). Calculate, store, and output the new annual salary, the new monthly salary, and the retroactive pay due. Retroactive pay is the difference between what they should have received had they gotten their raise on Jan. 1 and what they did receive. This program should run 3 times using the appropriate loop. At the end of each iteration of the loop the cursor should wait until the user presses the enter key before it loops. In other words, it should not just output the words "<Press enter to continue>", but the program should wait for the user to press enter before it continues.

## Additional Requirements

- Use constants instead of literals in calculations.
- Use appropriate data types and variable names throughout the code.
- Do not use spaces or tabs for formatting – use the manipulators discussed in class.
- The point of this lab is to demonstrate the use of input and output manipulators so be sure to stick to the output format specified below.

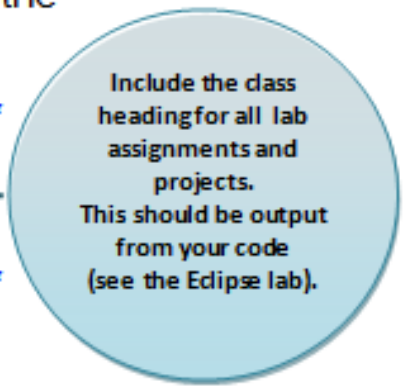
Flowchart and implement the solution to the problem.

## Turn in

1. This sheet.
2. Flowchart (done on the computer– including a variable list).
3. Your sample run (including line numbers, output as a text file from Eclipse)
   + Output should be as close as possible to the expected input and output on the following page (including spacing for input and output).
   + Be sure to format your output as specified.
   + Don't forget to include your CLASS HEADINGS at the top of your output.
   + You must use the input specified.
4. A listing of the code (conforming to style detailed in the lecture notes, including line numbers) – printed out directly from main.cpp.

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

**NOTE:** You need to include line #s and **YOUR** class heading
Be sure to document your code according to the
"Matters of Style" lecture notes.








```
 1 **************************************************
 2 *  PROGRAMMED BY : Carl Argila
 3 *  CLASS         : CSC5
 4 *  SECTION       : TTh - 6p-7:30p
 5 *  ASSIGNMENT #1 : Basic Input / Output
 6 **************************************************
 7
 8 What is your name?           Jean Cyr
 9 What is your current salary? 80000
10 What is your pay increase?   .05
11
12 Jean Cyr's SALARY INFORMATION
13 New Salary     Monthly Salary     Retroactive Pay
14   84000.00            7000.00            2000.00
15
16 <Press enter to continue>
17
18
19 What is your name?           Abe Lincoln
20 What is your current salary? 5000
21 What is your pay increase?   .07
22
23 Abe Lincoln's SALARY INFORMATION
24 New Salary     Monthly Salary     Retroactive Pay
25    5350.00           445.83             175.00
26
27 <Press enter to continue>
28
29
30 What is your name?           Joe Jackson
31 What is your current salary? 125125
32 What is your pay increase?   .25
33
34 Joe Jackson's SALARY INFORMATION
35 New Salary     Monthly Salary     Retroactive Pay
36  156406.25          13033.85           15640.62
37
38 <Press enter to continue>
39
40
```