Assignment #1 - Basics

Points: 30

Instructions (3 points)

Write a comment at the top that contains the following information
 // Your Name
 // CS 52
 // Assignment #1

- 2. Properly indent, format and comment your code as necessary
- 3. Read instructions carefully!
- 4. Name each program problemX.cpp where X is the problem number.
- 5. Upload your code to Canvas by the due date

Warning: - No late submission is accepted!

- Points will be deducted for entirely commented files!
- Name your files problem{#}.cpp, for example problem1.cpp, problem2.cpp, etc.
- Canvas may append -1, such as problem2-1.cpp which is okay!

Problem 1 Errors 3 points

Find and fix the error(s) in the following program.

```
using namespace std;
int MAIN()
        cout << "Hello << World;
        int name;
        cout << "Type your name:";
        cin << name;
        cout >> "Hello, " << << name;
}</pre>
```

Problem 2 Concert Tickets 8 points

There are three tickets for a concert. The VIP tickets cost \$120, premium tickets cost \$80, and regular tickets cost \$40. Prompt the user how many tickets of each category he would like. Then print an invoice with overview of the order and total price. Include a sales tax of 9.25%.

Problem 3

Program a Calculator

8 points

Write a program that can be used as a calculator. Prompt the user to enter which operation he/she would like to perform, that is addition, subtraction, multiplication, or division. Use a switch statements to properly handle the operator entered by the user. Then prompt the user to enter two operands. An example of the program may look like this:

```
Calculator
-----
What operation would you like to perform?
Addition (+), Subtraction (-), Multiplication (*), or Division (/)
Enter an operator: +
Enter operand 1: 23
Enter operand 2: 45
The results is: 23 + 45 = 78
```

Problem 4 Months 8 points

Write a program that determines the season based on the month. The program prompts a user to enter a month (1-12) and then prints if that month is in spring, summer fall or winter. The program must also check if a valid month was entered. For simplicity, assume: 1-3: spring, 4-6: summer, 7-9 fall, 10-12 winter.

```
Enter a month (1-12): -5
That is not a valid month!

CR

Enter a month (1-12): 7
The 7. month is in fall!

OR

Enter a month (1-12): 3

Enter a month (1-12): 14
The 3. month is in spring!

Enter a month must be in the future.
```