Lab #7: Eclipse Tutorial
Creating a template
(Individual Lab)

Introduction

Eclipse is the Integrated Development Environment (IDE) that we will be using for the semester to write, compile, and execute our c++ code.

This lab will serve 2 purposes. First, it will familiarize you with Eclipse. Second, it creates a template we will use for the rest of the semester.

Instructions

1. Watch and follow the instructions the Eclipse tutorial video (provided in Canvas)
2. **Type** the code specified below and on the next page (starting from below "Source Code")
   - ➢ **Note:** If you cut and paste it is likely to cause errors
3. Be sure to execute your code and copy the output to a txt file within *Eclipse*.
4. Convert your txt file and your source code to a pdf (Print to pdf)
   - ➢ To find your eclipse files → go to your workspace folder and open the folder that your created for your lab.
5. Submit your lab into the discussion
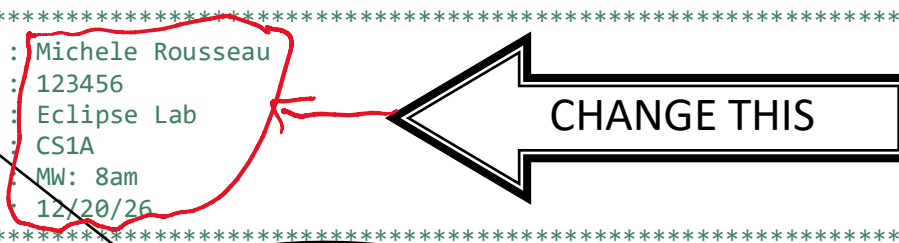
Submit in Canvas (in the FOLLOWING ORDER)

1 - A Single PDF containing:
   - a. Output pasted into a txt file within eclipse → include line numbers
   - b. Source code – from eclipse → include line numbers

Source Code

```
/*************************************************************************
 * AUTHOR      : Michele Rousseau
 * STUDENT ID  : 123456
 * LAB #7      : Eclipse Lab
 * CLASS       : CS1A
 * SECTION     : MW: 8am
 * DUE DATE    : 12/20/26
 *************************************************************************/

#include <iostream>
#include <iomanip>
using namespace std;

/*************************************************************************
 * ECLIPSE TUTORIAL
 *-----------------------------------------------------------------------
 * This program will output the class heading
 *-----------------------------------------------------------------------
 * INPUT:
 *    <There is no input for this program - output data is obtained through
 *    the constants.>
 *
 * OUTPUT:
 *  <This program will output a class heading>
 *************************************************************************/
```

CHANGE THIS

Make sure this number is correct

```cpp
int main()
{
   /***********************************************************************
    * CONSTANTS
    * --------------------------------------------------------------------
    * OUTPUT - USED FOR CLASS HEADING
    * --------------------------------------------------------------------
    * PROGRAMMER : Programmer's Name
    * CLASS      : Student's Course
    * SECTION    : Class Days and Times
    * LAB_NUM    : Lab Number (specific to this lab)
    * LAB_NAME   : Title of the Lab
    ***********************************************************************/

   const char PROGRAMMER[] = "Michele Rousseau";
   const char CLASS[]      = "CS1A";
   const char SECTION[]    = "MW: 7:30a - 12:00p";        CHANGE THIS
   const int  LAB_NUM      = 7;
   const char LAB_NAME[]   = "Eclipse Tutorial";

   // (variable declarations go here)


   /***********************************************************************
    * OUTPUT – Class Heading
    ***********************************************************************/
   cout << left;
   cout << "**********************************************\n";
   cout << "*  PROGRAMMED BY : "  << PROGRAMMER << endl;
   cout << "*  "        << setw(14) << "CLASS"   << ": " << CLASS    << endl;
   cout << "*  "        << setw(14) << "SECTION" << ": " << SECTION  << endl;
   cout << "*  LAB #" << setw(9)  << LAB_NUM   << ": " << LAB_NAME << endl;
   cout << "**********************************************\n\n";
   cout << right;

   /***********************************************************************
    * INPUT - describe input here
    ***********************************************************************/

   /***********************************************************************
    * PROCESSING - describe processing here
    ***********************************************************************/

   /***********************************************************************
    * OUTPUT - describe output here
    ***********************************************************************/

   return 0;
}
```

EXPECTED OUTPUT – Output should look like this except it should display your name and class information

```
**********************************************
*  PROGRAMMED BY : Michele Rousseau
*  CLASS         : CS1A
*  SECTION       : MW: 7:30a - 12:00p
*  LAB #7        : Eclipse Tutorial
**********************************************
```