

# CITP 190 – Introduction to Java

## Project 1

This project requires you to create a Eclipse project, to practice with errors, and to use the API documentation.

To receive full credit for this project you must submit the following:

- The source code for the program (the .java file).
- The bytecode for the program (the.class file)
- A capture of the output of the program using the data given.
- An .RTF file with the table from Project 1-2.
- An .RTF file with the report from Project 1-3.

Submit all files as one (1) ZIP file to the Project 1 Drop Box in the course site.

### Grading:

One zip file that contains all required files	5 points
Code from Project 1-1 is entered exactly as shown	5 points
The table from Project 1-2 is correct and complete	5 points
Report from Project 1-3 contains appropriate information and follows the guidelines given	5 points

### *Important notes:*

1. Uploading more than one zip file will result in a 0 grade for this project.
2. You may zip the Eclipse Project directory and then add the other files to that zip file.

# Project 1-1: Using the Eclipse IDE

## Instructions

1. Create a new Eclipse project named Project1.
2. Modify the code that is generated so that it appears exactly as shown in figure 1 below EXCEPT type your name where it shows <your name>. Please note that your code must look exactly like the code shown. You may need to delete some code and change where braces appear.
3. Run the program using the test data given.

Figure 1 - Code as it should be entered

```
/** Project1.java -- This is a project to practice using Eclipse
 *
 * @author  <your name>
 * Project 1
 * CITP 190
 * @version January 7, 2012
 *
 * This program allows the user to enter two integers.
 * It add the integers and displays the total
 */

import java.util.Scanner;

public class Project1 {

    /**
     * @param args
     */
    public static void main(String[] args)
    {
        int total = 0;
        int number1;
        int number2;
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter first integer: ");
        number1 = sc.nextInt();

        System.out.print("Enter second integer: ");
        number2 = sc.nextInt();

        total = number1 + number2;

        System.out.println("The total is " + total);

    }

}
```

## Test Data

First integer: 8, Second integer: 9

## Project 1-2: Practice with errors

### Instructions

1. If you closed the Eclipse Project1 project, open it again.
2. Open the Project1-2Report.rtf file found in the folder with this project.
3. Enter your name in the appropriate place in the file.
4. Use **Save as** from the **File** menu to save the file to your computer or USB drive. Add your last name to the beginning of the file name. For example if your name is Chris Smith you would save the file as SmithProject1-2Report.rtf.
5. One at a time, make the changes to the program indicated in the Project1-2Report.rtf file. Each change should cause one or more symbols to appear to the left of the code (although not necessarily on the line on which you made the change).
  - a. For each change record the message that appears when you hover the mouse pointer over the symbol. If more than one symbol is displayed, record all messages.
  - b. Correct the change before making the next change.
6. Once you have made the changes (and corrected them again), run the program again. Enter 7.8 as the first integer. Record what happens in the Project1-2Report.rtf file.

## Project 1-3: Navigate the API Documentation

### Instructions

1. Do Exercise 1-4 at the end of Chapter 1.
2. Write a report about your experience using the API documentation.
3. In your report include the following information:
  - a. How long you spent looking at the documentation.
  - b. Your impression of the ease of use of the documentation.
  - c. Your impression of the information supplied by the documentation

### Guidelines for the report

1. Save the report as an DOC, DOCX, or RTF file and name the report with your last name and then Project1-3Report. For example if your name is Chris Smith you would save the file as SmithProject1-3Report.
2. Your name must be the first line of the file. The course code (CITP 190) must be the second line of the File. The project number (Project 1) must be the third line of the file.
3. Use business English. In general this means that you must use full sentences and no abbreviations. You may want to see <http://www.writeexpress.com/tone.html>.
4. Use correct spelling and grammar. You will lose one point for every 5 spelling/grammar errors.