**CPSC1012 In-Class Exercise #8 – Methods – Creating and Calling Methods**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student Name: |  | Student Mark: |  | /5 |

**INSTRUCTIONS**

Complete the requirements of this assignment on your own. When you have finished, write your name on the board to get your instructor to mark your assignment. You are encouraged to create a flowchart; without a flowchart your instructor may not provide any assistance.

**Step 1:** Create a program named CPSC1012-Ex08-YourName

**Step 2:** Create the method specified below:

static void DrawTriangle(int rows)

**Input parameters:**

rows: number of rows of the triangle

**Output:**

Draws a triangle with the default character of a **\***

**Step 3:** Create the method specified below**:**

static void DrawTriangle(int rows, char drawChar)

**Input parameters:**

rows: number of rows of the triangle

drawChar: the character used to draw the triangle with

**Output:**

Draws a triangle with the drawChar

**Step 4:** Create the method specified below:

static int GetNumber(string message)

**Input parameters:**

message: message to be displayed for the prompt

**Returns:**

A valid integer from 1 to 10 inclusive

**Step 5:** In the Main() method, write the code that will do the following:

1. Prompt and read the dimensions of the box by calling the GetNumber() method.
2. Prompt and read in the draw character for the box (no validation required).
3. Call the DrawTriangle(int) method to display an empty box
4. Call the DrawTriangle(int, char) method to display a filled box.

**Step 6:** Test your program using the following test plan.

Table 1: Test Plan for Exercise #8

|  |  |  |  |
| --- | --- | --- | --- |
| ***Test case*** | ***Test Data*** | ***Expected result*** | ***Checked*** |
| Invalid number of rows | 11  0 |  |  |
| Rows = 3  Draw with & | 3  & |  |  |
| Rows = 8  Draw with ‘A’ | 8  A |  |  |