**CPSC1012 In-Class Exercise #6 – Modules using Methods – Modified 2019-10-24-RLaw**

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Mark: \_\_\_\_\_\_\_\_ / **5**

**INSTRUCTIONS**

Complete this assignment on your own. When you have finished this assignment write your name on the board to get your instructor to mark your assignment.

**BOXED IN**

In this assignment you will write a program to display a square box on the screen of a length specified by the user.

**Step 1:** Create the method specified below.

static int GetLength(string prompt)

**Input parameters**

**prompt:** message for user describing the input required

**Returns**

A validated length entered by the user between 1 and 10

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

static char GetCharacter(string prompt)

**Input parameters**

**prompt:** message for user describing the input required

**Returns**

A character entered by the user

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

static void DisplayBox(int length, char fillChar)

**Input parameters**

**length:** length of the sides of the box

**fillChar:** character to fill the box with

**Outputs**

Displays the specified box made up of fillChar.

**Step 4:** From the **main()** method, prompt and read the length of the box by calling the **GetLength()** method, prompt and read in the fill character for the box by calling the **GetCharacter()** method, then call the **DisplayBox(int,char)** method to display a filled box.

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Plan for *Exercise6*** | | | |
| ***Test case*** | ***Test Data*** | ***Expected result*** | ***Checked*** |
| Length of side = 3  Fill box with ‘X’ | 3  X | XXX  XXX  XXX |  |
| Length of side = 8  Fill box with ‘?’ | 8  ? | ????????  ????????  ????????  ????????  ????????  ????????  ????????  ???????? |  |