

PROG1781 – Programming Concepts

Assignment 1

[Maximum points: 25]

Date of Submission: 11/09/2018

1. Create a series of flowcharts. These flowcharts should be done in any software that allows for the drawing of a flowchart. Clearly label each flowchart and follow the standards for flowcharts presented from your class. There is more than one way to solve most problems. Therefore there is no one correct flowchart for each of the three problems presented below. Marks will be deducted when you do not solve a request in the question, or if something does not logically make sense for your particular algorithm.
 - a. Draw a flowchart to input a length in feet, and output that length in metres. [4 points]
 - b. Draw a flowchart to take an input number, and check that its length is less than 4 digits and it is a number. If its length is more than 4, ask for the user to enter another input. If the number is not a number then ask the user to enter a number. Any repeated inputs must also be less than 4 digits. [4 points]
 - c. Draw a flowchart for filling a bathtub at an appropriate temperature. [4 points]. The temperature should be > 80 and less than 90 degrees, if not add hot or cold water. The bathtub holds 100 gallons.
2. Create a C# console application that displays information about yourself. Your application will display the following when the application is started. Display your name [3 points], display your email [3 points], display your program name [3 points], and finally display your programming experience (Low, Moderate, or High) [3 points]. Before any of the above information is displayed, also include (display) a title "Your Name Assignment 1 Part 2" [1 point]. 0.25 points will be deducted for any standards. *Make sure that the program can run as an exe.*
 - a. i.e (Console.ReadLine();)

For example:

A Student - Assignment 1 Part 2

Name: A Real Student

Email: rstudent@conestogac.on.ca

Program: CPA

Experience: No previous programming experience.

The format for submitting the assignment is as follows:

1. **eMail Submission:** A single compressed (.zip format) archive file containing a soft copy of the flowcharts from Part 1 and the application folder for the program in Part 2. Submit this .zip file to the mail ravdeepk@continental.ac.in
2. **Demonstration of the Programs in Class:** Please have your program running on your computer when you are ready to demonstrate your work.