Lakehead University

Department of Computer Science

COMP-1411 – Computer Programming 1

Fall 2021

Assignment 1 [20 Points]

Due: September 27th, 2021, at 11:55 PM

Note: Read the document of assignment expectations from the course account on D2L.

Files (assignment) submission instructions:
- Submit the files using the link provided under 'Assignment' tab in the course account on D2L.
- The file name for the problem 1 will be convert.txt
- The file name for the problem 2 will be consumption.c

1. **[10 points] Conversion** - Write an algorithm in pseudocode that converts a height presented in feet and inches to the height presented in meters and centimeters. The algorithm must specify the input and the output. The solution should consider the following:
   a. Prompt the user to enter a height in feet and inches
   b. Convert the height to meter and centimeters
   c. Display the height in meter and centimeters

2. **[10 points] Fuel Consumption** - A driver is driving from one city to another, and the driver's concern is the cost of the fuel consumption from one city to another. Write a program in C to determine the cost of the fuel needed to travel between two cities.

   Test Run 1:
   Enter the distance between the 2 cities in kms: 312
   Enter the average consumption per 100 kms: 12
   Enter the fuel cost per liter in $: 1.44
   The cost to drive between the 2 cities is $53.9136

   Test Run 2:
   Enter the distance between the 2 cities in kms: 175
   Enter the average consumption per 100 kms: 9
   Enter the fuel cost per liter in $: .95
   The cost to drive between the 2 cities is $14.9625