**CSC 1101 – Problem Solving and Programming Laboratory**

**Lab 1 – Omar Faruk**

**25 points – Due September 8, end of lab**

**a)** Save this document with your name and the lab assignment number somewhere in the file name.

**b)** Type/paste your answers into the document.

**c)** Submit this document to the Canvas item where you downloaded this document.

You've been hired by *Michigan Riders* to write a C++ console application that calculates the average distance travelled by a car. The team leader of that company says they already have the application. Download file **Lab01.cpp** which contains the code to be edited. Create a C++ console application project in Visual Studio or another tool. Add the downloaded source code file to the project, or copy its contents to a project source code file. Make the following edits to the code file:

1. Add a header comment.
2. Correct the syntax error.

2) Edit the code so that there is one statement per line, whitespace, and proper indentation.

3) Add body comments to the code.

Use the C++ template for example of header and body comments. Note that if you are using Visual Studio, pre-2019 version, you will need to add the following two statements, the first near the top, and the second near the bottom:

#include<conio.h>

\_getch();

Run your code. Paste your edited code and output screenshot below.

*[your program code here]\**

**//==========================================================**

**//**

**// Title: <Lab 01>**

**// Course: CSC 1101**

**// Lab Number: <Lab 01>**

**// Author: <Omar Faruk>**

**// Date: <09/08/2020>**

**// Description:**

**// In this lab, we are adding the header, correcting syntax error,**

**// editing code, and adding the body comments to the code.**

**//**

**//==========================================================**

**#include <cstdlib> // For several general-purpose functions**

**#include <fstream> // For file handling**

**#include <iomanip> // For formatted output**

**#include <iostream> // For cin, cout, and system**

**#include <string> // For string data type**

**using namespace std; // So "std::cout" may be abbreviated to "cout"**

**//Creating function**

**int main()**

**{**

**//Declare Distance variables**

**string name;**

**int distance1=40;**

**int distance2=30;**

**int distance3=15;**

**//Calculating total distance**

**int total\_distance= distance1+distance2+distance3;**

**//**

**double average;**

**average= total\_distance/3;**

**cout << "Average distance travelled (in miles)" << average << endl;**

**cout << "Total distance travelled (in miles)" << total\_distance << endl;**

**//Running function**

**cout<< "Enter driver's name :";**

**cin >> name;**

**return 0;**

**}**

*[your program output here]\*\**

