

Assignment 6

CSIS 113A – Duffie (S2017)

Objective: To create a C++ Console application that utilizes *functions* to create the ‘*Menu Driven Conversion Calculator*’ application.

General Specification: Create a menu-driven application that supports the following menu options – **A. Miles to Kilometers**, **B. Kilometers to Miles**, **Q. Quit**. The program should continue to process conversions until Quit is selected. The overall design of your program is up to you.

Your program should implement and use the following functions –

```
double milesToKilometers(double miles);
```

takes miles and returns kilometers

```
double kilometersToMiles(double kilometers);
```

takes kilometers and returns miles

```
char getMenuChoice();
```

getMenuChoice should display the required menu and prompt the user to make a choice. The function should return choice as type **char**. Validation is optional.

Your main function should contain the menu switch (i.e. switch should not be in your getMenuChoice function). Also, your *milesToKilometers*, and *kilometersToMiles* functions should NOT contain any cin or cout statements. These functions are strictly calculation functions (i.e. a single value is passed to the function, and a single value is returned).

Implementation Notes: 1 Kilometers = .6214 Miles, and 1 Mile = 1.6093 Kilometers