**PE9 – Functions**

**Due Tuesday 8-Sep-2020 by 11:59pm**

* The following two functions have errors. What are they?

static bool Write()

{

Console.WriteLine("Text output from function.");

}

- A static bool function declared but never returns a bool value. It must return a true or false, for example if it detects a certain type of input, it can return true.

static void myFunction(string label, params int[] args,

bool showLabel)

{

if (showLabel)

{

Console.WriteLine(label);

}

foreach (int i in args)

{

Console.WriteLine("{0}", i);

}

}

- This function is trying to pass in two different types of parameters which won't work. This will result in a compiler error. If you want to use two parameters in a function, they must be the same type. For example <int x>, <int y> --> return x\*y.

* Add a timer to the Math Quiz Solution in "Lecture Code Examples" to elapse in 5 seconds for each question, and mark the answer wrong if the timer expires.

GitHub project URL: <https://github.com/jag8932/myIGME-201/blob/master/PE9_MathQuizTimer_Goodwillie.cs>

* Create a delegate function and use it to impersonate the Console.ReadLine() function when asking for user input. Refer to the "Lecture Code Examples" for the 3 steps in defining a delegate function. The signature of Console.ReadLine() is "string ReadLine()" (ie. it returns a string and accepts no parameters).

GitHub project URL: <https://github.com/jag8932/myIGME-201/tree/master/PE9_Goodwillie>

* Modify the following struct to include a function that returns the total price of an order, where the total price is unitCount \* unitCost:

struct order

{

public string itemName;

public int unitCount;

public double unitCost;

public double totalprice() {

return unitCount \* unitCost;

}

public string showOrder()

{

string order = String.Format("You ordered {0} {1} at ${2} per item." , unitCount, itemName, unitCost);

return order;

}

}

* Add another function to the order struct that returns a formatted string as follows, where italic entries enclosed in angle brackets are replaced by appropriate values:

Order Information: <*unit count*> <*item name*> items at $<*unit cost*> each, total cost $<*total cost*>

***Submission***

Upload this completed document to the corresponding MyCourses dropbox.

Add, Commit and Push the projects for #2 and #3