**Module One Assignment**

*NOTE: In this course you will create variables for classes in the application.  For now, the class definitions are not included.  In later modules, you will move this code into separate class files to aid in code reuse.   This assignment just lets you focus on data types, statements, etc. in C# to ease you into the language.*

We'll use a common application theme throughout the course for your assignments.  The assignments will provide hands-on coding tasks to create application components that could form a complete application when the course is finished.

For this module, you have learned about the data types, operators, and statements in C#.

Using this knowledge you will start to form some of the foundation for your application.  This assignment is designed to allow you to focus on the data types that are appropriate for attributes of real-world objects.  Later in the course, you will start to combine these attributes with behaviors (methods) and then transition them into object-oriented classes.

Also, this assignment offers suggestions for attributes for each object but does not give explicit instructions on every field required.  You will be required to think through the attributes of these "objects" as you create the necessary data to support them in an application.  Your list may be different in an application that you would create on your own.

1.  Create a C# Console application.

2.  Within the Main() method in this application, create variables of the correct data type for the information related to a **student only**.  The other information will be used in later modules when you create class files for the other objects listed:

**Student Information**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Name | Last Name | Birthdate | Address Line 1 | Address Line 2 | City | State/Province | Zip/Postal | Country |

**Teacher Information**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Name | Last Name | Birthdate | Address Line 1 | Address Line 2 | City | State/Province | Zip/Postal | Country |

**UProgram Information**

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| --- | --- | --- |
| Program Name | Department Head | Degrees |

**Degree Information**

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| Degree Name | Credits Required |

**Course Information**

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| --- | --- | --- | --- |
| Course Name | Credits | Duration in Weeks | Teacher |

3.  Once you have the variables created, use assignment statements to assign values to one set of student variables and use the Console.WriteLine() method to output the values to the console window.

*Again, this assignment is merely intended to check your understanding of how to create variables, assign values to them, and output the information to a console window.  You will build on these concepts and begin to create more functionality in later modules.*

4.  Post your code in the peer review area for feedback from other students.

**Challenge (Not graded)**

Investigate the .NET Framework documentation around Console.ReadLine() and modify your code to use this method for accepting input from a user of your application.  Using Console.ReadLine(), prompt a user for information about a student.  One prompt for each student variable you created earlier.   Use the appropriate code to assign the values from the user to the variables for the student.