Exercise 1

Take the official .NET and C# in-browser tutorial: <https://www.microsoft.com/net/learn/in-browser-tutorial/1>.

Exercise 2

Create a new console application using the .NET Core CLI. Have the application output your name to the console.

Exercise 3

Create a new Person class in a separate file. The class should contain a name property and an Introduce method that prints *“Hi, I am (name)”* to the console. In the Main method of the Program class, create an instance of the Person class, specifying the name property with object initializer notation and then call the Introduce method on the object.

Exercise 4

Write a program that prints all even numbers between 0 and 100 using a for loop. Next, create a while loop that prints all the uneven numbers.

Exercise 5

Write a program that uses a switch-case structure. The program should take a number between 0 and 10. If the number is 0, print *“this is the first number”* to the console. If the number is 10, the program should write *“this is the last number”*. In any other case, the program should print the number provided. (unless the number is not between 0 and 10, in which case it should output *“invalid number”*).

Exercise 6

Create a Calculator class and put it in it's own MathLib namespace inside a separate DNP namespace. Create an Add method in the calculator that takes two numbers and use it in the Main method of Program.cs. Add an overload method for Add that takes an array of integers and adds them together. Use this overload method in the Main method of the program.

Exercise 7

Write a program that takes two number inputs from the console and then displays the maximum of the two. (hint: use the Console.ReadLine() method).

Exercise 8

Write a program that asks the user to enter their name. Use an array to reverse the name and then store the result in a new string. Display the reversed name on the console.

Exercise 9

Create a static SummarizeText method in a separate StringUtility class. Use this class to return a summarized text string if the provided string is more than 20 characters long (i.e. the string will end early with “...”).