1. **Static methods:**

Read: http://csharp.net-tutorials.com/basics/functions/, http://www.learncs.org/en/Methods

Do:

a) Write a void method that takes string as parameter and prints out that string

b) Write a void method for printing out a sum for 2 numbers. Method takes the numbers as parameters

c) Write a method for returning the sum of 2 numbers (int). Method takes the numbers as parameters

d) Write a method that takes 2 strings as input and returns weather first string contains the second one (return type is bool)

2. **Lists**

Read: http://www.csharp-examples.net/list/ , https://www.dotnetperls.com/list

Do:

a) Try lists: Create a new list of strings and add 3 items there (*List.Add()*)

b) Print out the item with index 2 and the length of the list (*List.Count*)

c) Remove the item with index 2 (*List.Remove()*) and print out the length

d) Create a second list of strings and add 2 items there; concatenate with first list (*List.AddRange()*)

e) Create a method (without parameters) called *CreateList()* for creating a list of 3 strings and returning it

3. **Loops**

3.1 Foreach

Read: https://www.dotnetperls.com/foreach, http://www.csharp-examples.net/foreach/ (see the first example)

Do:

a) Print out all the items in the list you created in 2.e

3.2 For-loop

Read: https://www.dotnetperls.com/for

Do:

a) Write a for cycle for printing out numbers from 1 to 10
b) Write a for cycle for printing out all the items in the list you created in 2.e
c) Write a method that creates a list of 100 integers

3.3 While-loop

Read: https://www.dotnetperls.com/while, http://www.learncs.org/en/While_loops

Do:

a) Print X to the console N times using a while loop
b) Write a while cycle for printing out all the items in the list you created in 2.e (use list count as iterator and increase the value; check whether the value exceeds list count)
c) Keep on asking the user to enter a string until the user enters a string with length 4.

4. Arrays

Read: http://www.learncs.org/en/Arrays, https://www.dotnetperls.com/array

Do:

a) Create an array of integers with length of 4.
b) Replace the second item in the array with number 6.
c) Print out all odd numbers in the array.