

Homework:

First watch videos 1-13 on all the topics you don't feel comfortable with:

https://mva.microsoft.com/en-US/training-courses/c-fundamentals-for-absolute-beginners-16169?l=Lvld4EQIC_2706218949

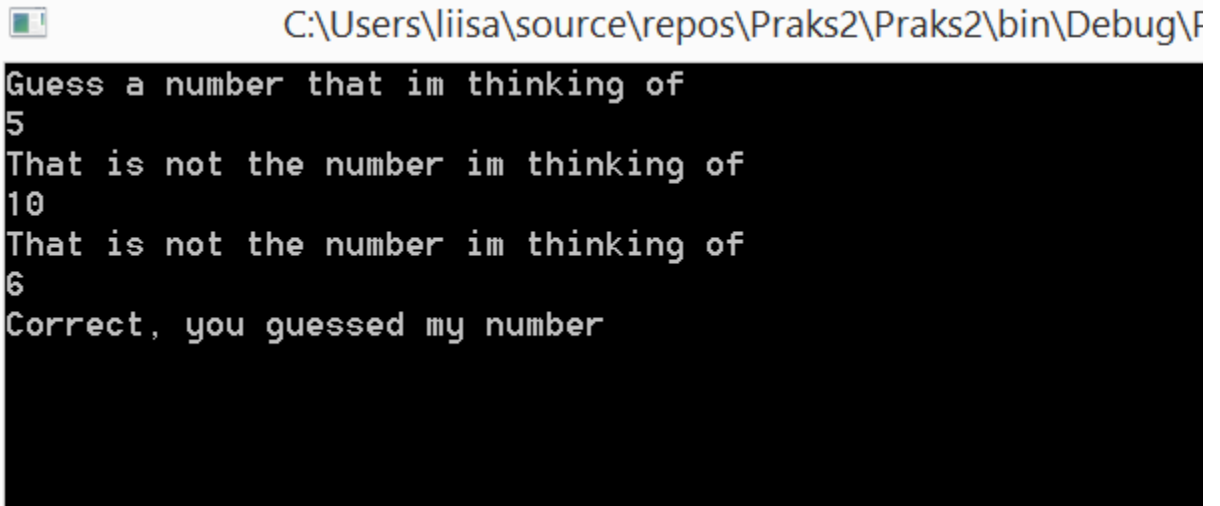
Then try out some examples here; try to do yourself and then see the solution. Don't submit these exercises, they are for practicing. You'll also learn some new methods (For example `string.contains()`).

- 1) Try exercises 1-5 <https://www.w3resource.com/csharp-exercises/for-loop/index.php>
- 2) Try exercises 2, 4, 5, 8, 10, 14, 15, 16, 17. <https://www.w3resource.com/csharp-exercises/string/index.php>
- 3) Try exercises 1, 2, 3, 5 <https://www.w3resource.com/csharp-exercises/array/index.php>

Submit exercises below (you will find lots of help from the previous exercises):

- 1) Write a method called "PrintModifiedString" that takes string as a parameter and prints the string where letter "a" is appended to every character.
For example: "test" -> "taeasata"
- 2) Write a method called "PrintUpperCaseString" that takes string as parameter and prints a string where all lower case characters are replaced by upper case characters. If input word already is upper case, then notify the user.
For example: "test" -> "TEST"; if input is already upper case (for example "TEST") then print "Word is already uppercase"
- 3) Write a method that asks user for 3 strings, adds them to list and then prints out the sorted list
Example:
"Please enter 3 strings"
"pineapple"
"banana"
"Orange"
"Results in a sorted list are: banana, orange, pineapple"
- 4) Write a method (parameter: integer X showing the size of the array) that creates a list of X random integers (`Math.Random()`) and returns the sum of all items
Example usage:
GetSumOfRandomIntegers(10) //Call out the method and give the size of the array as parameter
//create a new list with size 10 and fill with 10 random numbers, use for loop to fill the list
//Return the sum of all the items in the list
- 5) Pre-define a number. Ask user to guess the number. Use while loop to keep on asking the user to guess the number until the user gets the correct answer. Important thing here is that the

program has to run until the user gets the correct answer. Tip: write a method that returns a bool.



A screenshot of a Windows command prompt window. The title bar shows the file path: C:\Users\liisa\source\repos\Praks2\Praks2\bin\Debug\F. The command prompt has a black background with white text. The text displayed is as follows:

```
Guess a number that im thinking of
5
That is not the number im thinking of
10
That is not the number im thinking of
6
Correct, you guessed my number
```

For example: pre defined number is 6

"Guess the number that I am thinking of"

User enters 5, gets a message that it's wrong and an option to answer again

User enters 10, gets a message that it's wrong and an option to answer again

User enters 7, gets a message that it's wrong and an option to answer again

User enters 6 and program sais "Correct, you guessed my number"