

Programming 3

UCN – Computer Science - C#

First C#

Use the Main method and try to input arguments.

Content

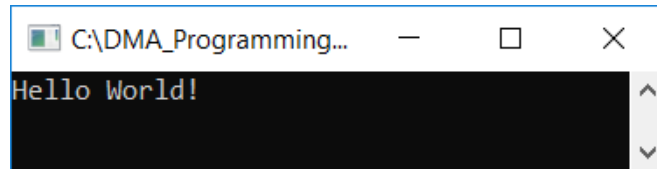
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Hello World

Minimalistic

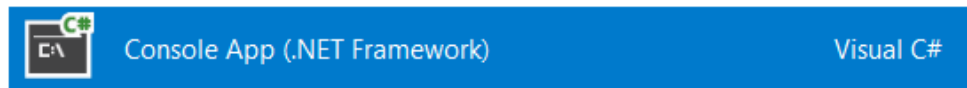
Simple Hello World from the Visual Studio demo.

If you have coded along then open your project in VS and run the code. The output should look like this:



If not

Create a console project



and key in the Hello World code and run the code. Result as above.

What happens if you change the method name to main?
(instead of Main)

Using args - 1

Use of args[] from the Visual Studio demo.

If you have coded along you may already have the code that prints the first item from args[].

If not

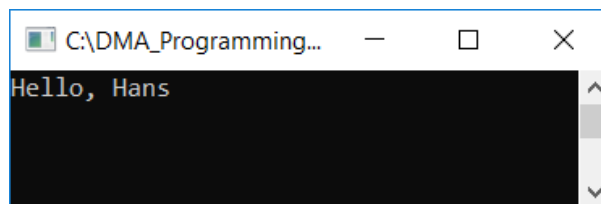
Create another console project in your solution and input this Main method:

```
static void Main(string[] args) {  
    string name = args[0];  
    Console.WriteLine("Hello, " + name);  
    Console.ReadLine();  
}
```

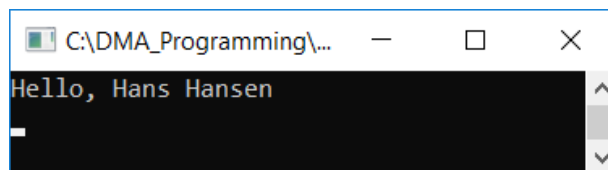
Fortunately you can pass arguments to a console app through visual studio.

- Right-click on the project and select *Properties*
- Then select the *Debug* tab
- Key in an argument in the *command line arguments* text area

When you run the program the output should be similar to this (depending on the input argument):



Try to input more arguments:



Extra

What happens when you run the program without any arguments?

Remedy the problem with missing args by testing if a string has visible content before you try to print it. Find a suitable method for testing that in the String Class documentation!

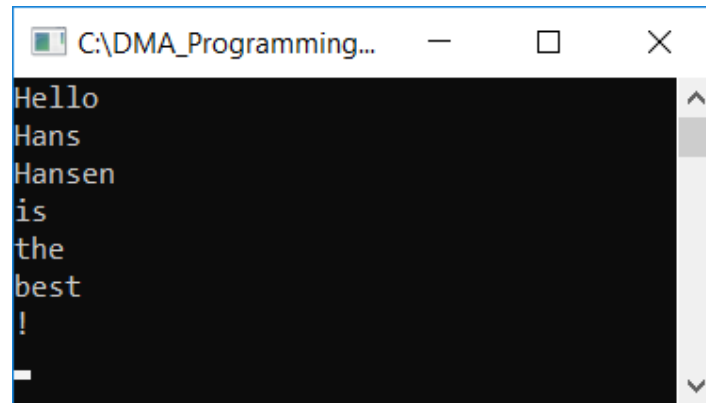
Link: <https://docs.microsoft.com/en-us/dotnet/api/system.string?view=netframework-4.7.1#methods>

You also need to check the length of the array!

Using args – 2 (Challenge exercise)

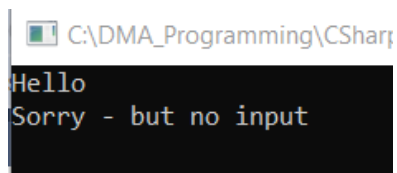
Further use of `args[]` from the Visual Studio demo.
Possibly create a new project.

Make it possible to take any number of arguments and print them. Result like:



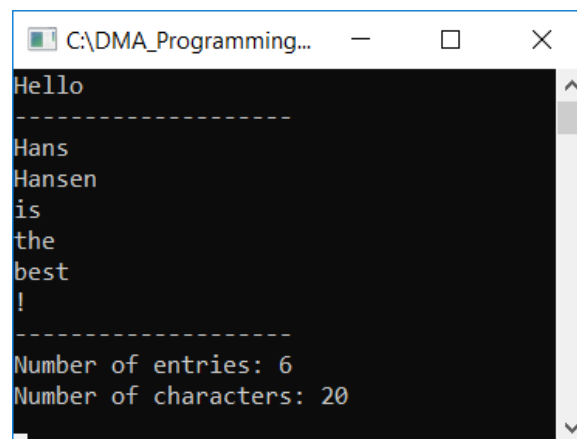
```
C:\DMA_Programming...  
Hello  
Hans  
Hansen  
is  
the  
best  
!  
_
```

If no arguments the result should be like:



```
C:\DMA_Programming\CSharp  
Hello  
Sorry - but no input
```

Experiment, e.g. print statistics:



```
C:\DMA_Programming...  
Hello  
-----  
Hans  
Hansen  
is  
the  
best  
!  
-----  
Number of entries: 6  
Number of characters: 20  
_
```