Ardit Krasniqi

Drejtimi: Shkenca Kompjuterike

Kampusi: Prishtinë/ Lipjan

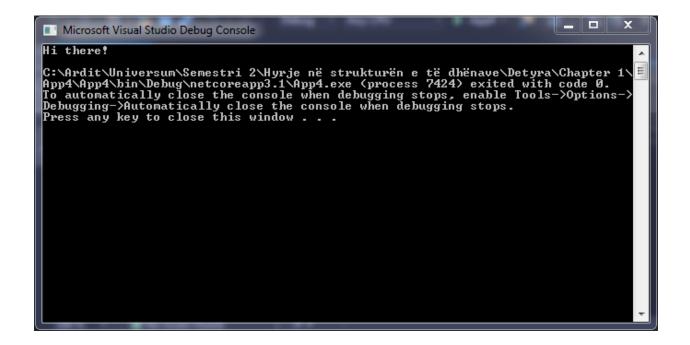
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Chapter 1

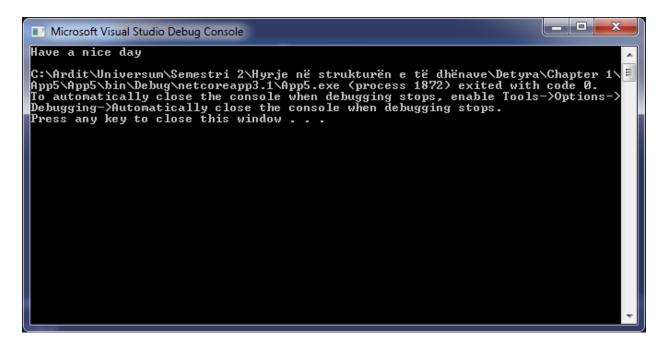
- 1. Install and make yourself familiar with **Microsoft Visual Studio** and Microsoft Developer Network (**MSDN**) Library Documentation.
- 2. Find the description of the **System.Console** class in the standard .NET API documentation (MSDN Library).
- 3. Find the description of the **System.Console.WriteLine()** method and its different possible parameters in the MSDN Library.
- 4. **Compile and execute** the sample program from this chapter using the command prompt (the console) and Visual Studio.

```
using System;
namespace App4
{
    class HelloCSharp
    {
        static void Main()
        {
            System.Console.WriteLine("Hi there!");
        }
    }
}
```



5. **Modify** the sample program to print a different greeting, for example "Good Day!".

```
using System;
namespace App5
{
    class HelloCSharp
    {
        static void Main()
        {
            System.Console.WriteLine("Have a nice day");
        }
    }
}
```



6. Write a console application that **prints your first and last name** on the console.

```
using System;
namespace App6
{
    class Program
    {
        static void Main(string[] args)
         {
            Console.WriteLine("Ardit Krasniqi");
         }
     }
}
```

```
Ardit Krasniqi
C:\Ardit\Universum\Semestri 2\Hyrje në strukturën e të dhënave\Detyra\Chapter 1\App6\FirstApp\bin\Debug\netcoreapp3.1\FirstApp.exe (process 8180) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

7. Write a program that **prints the following numbers** on the console 1, 101, 1001, each on a new line.

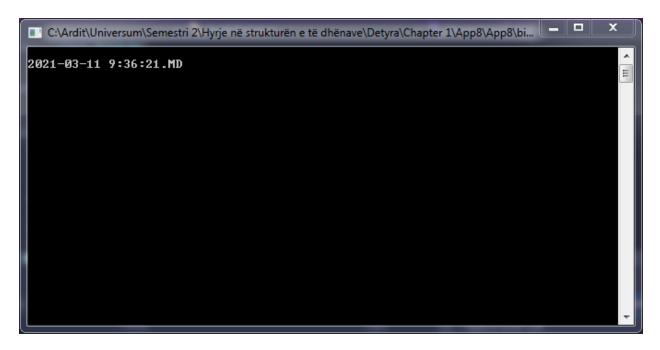
```
using System;
namespace App7
{
    class Program
    {
        static void Main(string[] args)
         {
            Console.WriteLine("1");
            Console.WriteLine("101");
            Console.WriteLine("1001");
        }
     }
}
```

```
Microsoft Visual Studio Debug Console

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C:\Ardit\Universum\Semestri 2\Hyrje në strukturën e të dhënave\Detyra\Chapter 1\
App7\App7\App7\bin\Debug\netcoreapp3.1\App7.exe (process 3584) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->
Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

8. Write a program that prints on the console the **current date and time**.



9. Write a program that prints the **square root of 12345**.

```
using System;
namespace App9
{
    class Program
    {
        static void Main(string[] args)
         {
            Console.Write(Math.Sqrt(12345));
        }
    }
}
```

```
Microsoft Visual Studio Debug Console

111.1080555135405
C:\Ardit\Universum\Semestri 2\Hyrje në strukturën e të dhënave\Detyra\Chapter 1\App9\App9\hin\Debug\netcoreapp3.1\App9.exe (process 7724) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->
Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

10. Write a program that prints the first 100 members of the **sequence** 2, -3, 4, -5, 6, -7, 8.

```
using System;
namespace App10
    class Program
        static void Main(string[] args)
            int number;
            for (int i = 2; i <= 100; i++)
                if (i % 2 == 0)
                {
                    Console.WriteLine(i);
                }
                else
                {
                    Console.WriteLine(i * (-1));
            }
        }
    }
}
```



```
Microsoft Visual Studio Debug Console

84
-85
86
-87
88
-89
90
-91
92
-93
94
-95
96
-97
98
-99
100

C:\Ardit\Universum\Semestri 2\Hyrje në strukturën e të dhënave\Detyra\Chapter 1\App10\App10\bin\Debug\netcoreapp3.1\App10.exe \((\process 6484\))\exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->
Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

11. Write a program that reads your age from the console and prints your age after 10 years.

```
Input your current age:18
Your age after 10 years:28
C:\Ardit\Universum\Semestri 2\Hyrje në strukturën e të dhënave\Detyra\Chapter 1\\
App11\App11\bin\Debug\netcoreapp3.1\App11.exe (process 7660) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->
Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

12. Describe the difference between C # and the .NET Framework .	
-In simple terms, C# is a programming language.NET is the framework on which the language is built.NET supports many programming languages,and defines the rules and associated libraries those languages will use.	
13. Make a list of the most popular programming languages. How are they different from C#?	
1. Java 2. Python 3. C 4. Ruby 5. JavaScript 7. PHP 8.C#	
14. Decompile the example program from exercise 5.	