**Exercises**

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.

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

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

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

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.

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

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

12. Describe the difference between C# and the .NET Framework.

13. Make a list of the most popular programming languages. How are they different from C#?

14. Decompile the example program from exercise 5.

**Answers**

2. Represents the standard input, output, and error streams for console applications.

3. It resolves calls to System.Console.WriteLine that include a string and an object array as a call to WriteLine(String, Object).

5. using System;

namespace Detyra5

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Good Day!");

}

}

}

6. using System;

namespace Detyra6

{

class Program

{

static void Main(string[] args)

{

string name = "Osman ";

string lastName = "Hoxha";

Console.WriteLine(name + lastName);

}

}}

7. using System;

namespace Detyra7

{

class Program

{

static void Main(string[] args)

{

int numri1 = 1;

int numri2 = 101;

int numri3 = 1001;

Console.WriteLine(numri1);

Console.WriteLine(numri2);

Console.WriteLine(numri3);

}

}

}

8. using System;

namespace Detyra8

{

class Program

{

static void Main(string[] args)

{

DateTime data = DateTime.Now;

Console.WriteLine(data.ToString());

Console.ReadKey();

}

}

}

9. using System;

namespace Detyra9

{

class Program

{

static void Main(string[] args)

{

double numri = Math.Sqrt(12345);

Console.WriteLine(numri);

Console.ReadKey();

}

}

}

10. using System;

namespace Test

{

class Program

{

static void Main()

{

for (int i = 2; i < 101; i++)

{

if(i%2 == 0)

{

Console.WriteLine(i);

}

else

{

Console.WriteLine(-i);

}

}

Console.ReadKey();

}

}

}

11. using System;

namespace Detyra11

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Type your age:");

int myAge = Convert.ToInt32(Console.ReadLine());

int meIn10Years = myAge + 10;

Console.WriteLine($"Your age in 10 years will be {meIn10Years}");

Console.ReadKey();

}

}

}12. C# is a programming language, whereas . NET is the framework on which the language is built.

13. Tools and technologies: the most commonly used programming language is JavaScript. Nearly 70% of professional developers who responded to the 2020 Stack Overflow survey coded in JavaScript. JavaScript has been the most-used technology since Stack Overflow started doing the annual survey.

Also very popular are Python , Rust ,Go Lang , some of them are different in the way that they are typed like JS is not statically typed whereas C# is.

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