

Universidad Rafael Landívar

Facultad de Ingeniería

Ingeniería en Informática y Sistemas

Pensamiento Computacional, Sección 08

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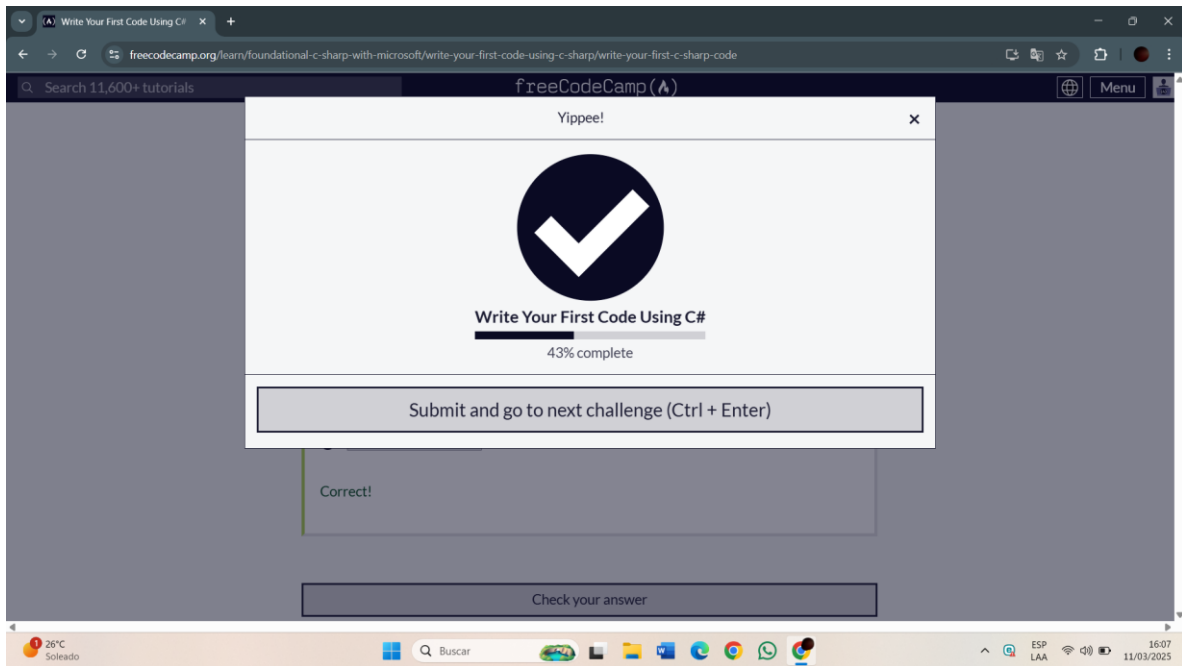
Actividad 2– Semana 9 – Code Camp c#

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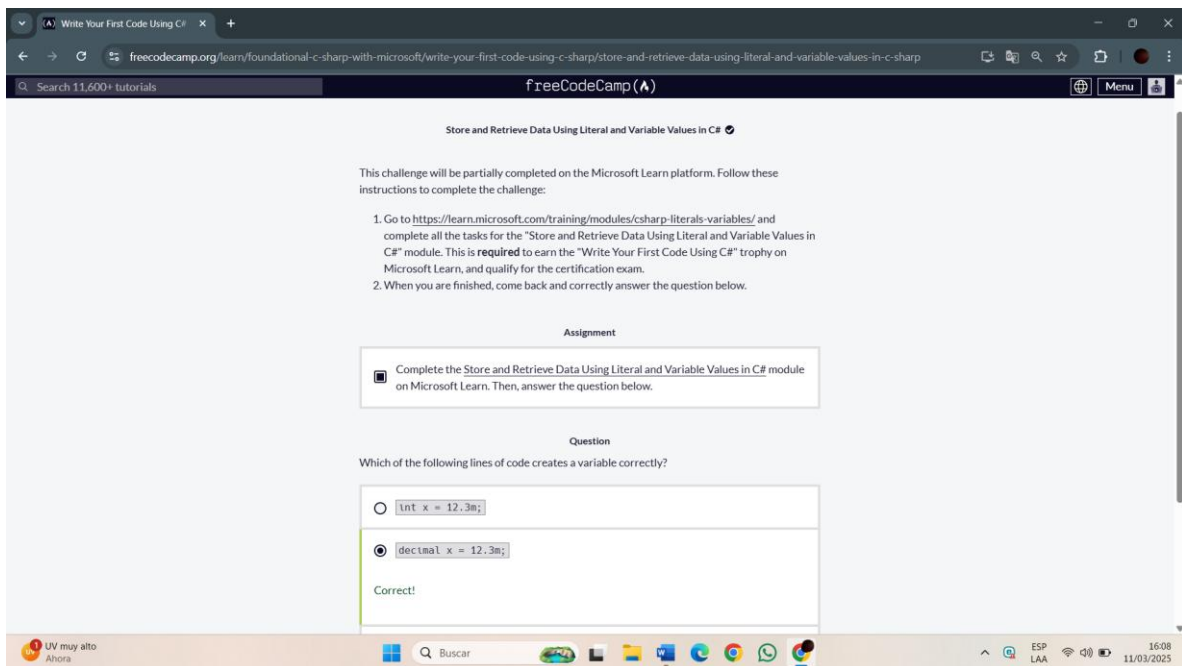
Guatemala, 14 de marzo de 2025

Lecciones

Lección 1:



Lección 2:



Lección 3:

The screenshot shows a web browser window with the freeCodeCamp website. The page title is "Write Your First Code Using C#". The challenge is titled "Perform Basic String Formatting in C#". It includes instructions to complete the challenge on the Microsoft Learn platform and a question about string interpolation. The question asks which line of code correctly uses string interpolation assuming the variable `value` is a string. Two options are provided: `Console.WriteLine(@"My value: {value}");` and `Console.WriteLine($"My value: {value}");`. The second option is selected.

Write Your First Code Using C#

Free Foundational C# with Microsoft

Perform Basic String Formatting in C#

This challenge will be partially completed on the Microsoft Learn platform. Follow these instructions to complete the challenge:

1. Go to <https://learn.microsoft.com/training/modules/csharp-basic-formatting/> and complete all the tasks for the "Perform Basic String Formatting in C#" module. This is **required** to earn the "Write Your First Code Using C#" trophy on Microsoft Learn, and qualify for the certification exam.
2. When you are finished, come back and correctly answer the question below.

Assignment

Complete the Perform Basic String Formatting in C# module on Microsoft Learn. Then, answer the question below.

Question

Which of the following lines of code correctly uses string interpolation assuming that the variable `value` is a string?

☐ `Console.WriteLine(@"My value: {value}");`

☒ `Console.WriteLine($"My value: {value}");`

Lección 4:

The screenshot shows a web browser window with the freeCodeCamp website. The page title is "Write Your First Code Using C#". The challenge is titled "Perform Basic Operations on Numbers in C#". It includes instructions to complete the challenge on the Microsoft Learn platform and a question about the result of a C# expression. The question asks for the value of the following result: `int result = 3 + 1 * 5 / 2;`. Four options are provided: 10, 5, 6, and 5. The second option, 5, is selected and marked as correct.

Write Your First Code Using C#

Free Foundational C# with Microsoft

Perform Basic Operations on Numbers in C#

This challenge will be partially completed on the Microsoft Learn platform. Follow these instructions to complete the challenge:

1. Go to <https://learn.microsoft.com/training/modules/csharp-basic-operations/> and complete all the tasks for the "Perform Basic Operations on Numbers in C#" module. This is **required** to earn the "Write Your First Code Using C#" trophy on Microsoft Learn, and qualify for the certification exam.
2. When you are finished, come back and correctly answer the question below.

Assignment

Complete the Perform Basic Operations on Numbers in C# module on Microsoft Learn. Then, answer the question below.

Question

What is the value of the following result?

```
1 | int result = 3 + 1 * 5 / 2;
```

☐ 10

☒ 5

Correct!

☐ 6

Lección 5:

The screenshot shows a web browser window with the address bar displaying `freecodecamp.org/learn/foundational-c-sharp-with-microsoft/write-your-first-code-using-c-sharp/guided-project-calculate-and-print-student-grades`. The page title is "Free Foundational C# with Microsoft" and the sub-header is "Write Your First Code Using C#". The main heading is "Guided Project - Calculate and Print Student Grades".

The challenge instructions state: "This challenge will be partially completed on the Microsoft Learn platform. Follow these instructions to complete the challenge:"

1. Go to <https://learn.microsoft.com/training/modules/guided-project-calculate-print-student-grades/> and complete all the tasks for the "Guided Project - Calculate and Print Student Grades" module. This is required to earn the "Write Your First Code Using C#" trophy on Microsoft Learn, and qualify for the certification exam.
2. When you are finished, come back and correctly answer the question below.

The "Assignment" section contains a checkbox: "Complete the Calculate and Print Student Grades guided project on Microsoft Learn. Then, answer the question below."

The "Question" section asks: "What is wrong with the following code?"

```
1 int sophiaSum;
2 Console.WriteLine("Sophia: " + sophiaSum);
```

The answer options are:

- ☒ `sophiaSum` is not initialized before use
- ☐ `sophiaSum` is not implicitly typed to a string
- ☐ `sophiaSum` should use the var keyword

The correct answer is "Correct!". The browser's taskbar at the bottom shows the date and time as 11/03/2025, 16:52.

Lección 6:

The screenshot shows a web browser window with the address bar displaying `freecodecamp.org/learn/foundational-c-sharp-with-microsoft/write-your-first-code-using-c-sharp/guided-project-calculate-final-gpa`. The page title is "Free Foundational C# with Microsoft" and the sub-header is "Write Your First Code Using C#". The main heading is "Guided Project - Calculate Final GPA".

The challenge instructions state: "This challenge will be partially completed on the Microsoft Learn platform. Follow these instructions to complete the challenge:"

1. Go to <https://learn.microsoft.com/training/modules/guided-project-calculate-final-gpa/> and complete all the tasks for the "Guided Project - Calculate Final GPA" module. This is required to earn the "Write Your First Code Using C#" trophy on Microsoft Learn, and qualify for the certification exam.
2. When you are finished, come back and correctly answer the question below.

The "Assignment" section contains a checkbox: "Complete the Calculate Final GPA guided project on Microsoft Learn. Then, answer the question below."

The "Question" section asks: "What is the value of `(int) gradePointAverage`?"

Suppose `decimal gradePointAverage = 3.998728316;`

The answer options are:

- ☐ 3.99
- ☐ 4
- ☒ 3

The correct answer is "Correct!". The browser's taskbar at the bottom shows the date and time as 11/03/2025, 18:45.

Lección 7:

