

# C# tarea inicial

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1. Declarar variable de los diferentes tipos, asignarles valor e imprimir el valor.

```
2. using System;
3. using System.Runtime.InteropServices;
4. namespace MyProgram
5. {
6.     class Practical1
7.     {
8.         static void Main(string[] args0)
9.         {    double decnum=4.9;
10.             Console.WriteLine($"double number = {decnum}");
11.
12.             float floatnum= 10152466.25F;
13.             Console.WriteLine($"float number = {floatnum}");
14.
15.             byte numbyte = 70;
16.             Console.WriteLine($"byte number = {numbyte}");
17.
18.             string text = "I'm a text variable";
19.
20.             Console.WriteLine($"text variable = {text}");
21.
22.             int numint=0;
23.             Console.WriteLine($"La fecha y hora de ahora es:
{numint}");
24.         }
25.     }
26. }
```

## C# tarea inicial

```
namespace MyProgram
{
    class Practical1
    {
        static void Main(string[] args0)
        {
            double decnum=4.9;
            Console.WriteLine($"double number = {decnum}");

            float floatnum= 10152466.25F;
            Console.WriteLine($"float number = {floatnum}");

            byte numbyte = 70;
            Console.WriteLine($"byte number = {numbyte}");

            string text = "I'm a text variable";
            Console.WriteLine($"text variable = {text}");

            int numint=0;
            Console.WriteLine($"La fecha y hora de ahora es: {numint}");
        }
    }
}
```

PS C:\Users\Luis Angel Guillen\MiApp> dotnet run  
double number = 4.9  
float number = 10152466  
byte number = 70  
text variable = I'm a text variable  
La fecha y hora de ahora es: 0  
PS C:\Users\Luis Angel Guillen\MiApp>

27. Buscar cómo se declara una constante en C# e imprimir el valor. Probar de cambiar su valor luego y ver que es lo que pasa.

```
28.using System;
29.namespace MyProgram
30.{
31.    class Practical1
32.    {
33.        static void Main(string[] args0)
34.        {
35.            const string Test = "I'm a Constant. I can't change";
36.            Console.WriteLine(Test);
37.            Test="Doing some Cleaning";
38.        }
39.    }
40.}
```

## C# tarea inicial

```
39.     }
40. }
```

The screenshot shows the Visual Studio Code interface. In the top left, there's a menu bar with 'File', 'Go', 'Run', 'Terminal', 'Help'. The title bar says 'MiApp'. Below the menu is a 'Program.cs 1' tab. The code editor contains the following C# code:

```
1  using System;
2  namespace MyProgram
3  {
4      class Practical1
5      {
6          static void Main(string[] args)
7          {
8              string Test = "I'm a Constant. I can't change";
9              Test = "Doing some Cleaning";
10         }
11     }
12 }
```

A tooltip is displayed over the assignment statement 'Test = "Doing some Cleaning";' with the message: 'The left-hand side of an assignment must be a variable, property or indexer (CS0131)'.

Below the code editor is a 'PROBLEMS' tab with one error: 'C:\Users\Luis Angel Guillen\MiApp\Program.cs(9,36): error CS1002: ; expected'. The terminal window at the bottom shows the command 'dotnet run' being executed twice, resulting in the same error message.

41. Declara un entero, incrementarlo, decrementarlo, hacer operaciones con el.

```
42. using System;
43. namespace MyProgram
44. {
45.     class Practical1
46.     {
47.         static void Main(string[] args)
48.         {
49.             int num=5;
50.             Console.WriteLine($"I'm the number as declare at first
time{num}");
51.
52.             num++;
53.             Console.WriteLine($"I'm the number incremented by
1{num}");
54.
55.             num--;
56.             num--;
57.             Console.WriteLine($"I'm the number decremented
twice{num}");
58.
59.             num = num + num;
60.             Console.WriteLine($"I'm the number sumed with my
value{num}");
```

## C# tarea inicial

```
61.  
62.        }  
63.    }  
64.}
```

```
1  using System;  
2  namespace MyProgram  
3  {  
4      class Practical  
5      {  
6          static void Main(string[] args0)  
7          {  
8              int num=5;  
9              Console.WriteLine($"I'm the number as declare at first time {num}");  
10             num++;  
11             Console.WriteLine($"I'm the number incremented by 1 {num}");  
12             num--;  
13             num--;  
14             Console.WriteLine($"I'm the number decremented twice {num}");  
15             num = num + num;  
16             Console.WriteLine($"I'm the number sumed with my value {num}");  
17         }  
18     }  
19 }  
20 }  
21 }
```

The build failed. Fix the build errors and run again.

```
PS C:\Users\Luis Angel Guillen\MiApp> dotnet run  
I'm the number as declare at first time5  
I'm the number incremented by 16  
I'm the number decremented twice4  
I'm the number sumed with my value8  
PS C:\Users\Luis Angel Guillen\MiApp> dotnet run  
I'm the number as declare at first time 5  
I'm the number incremented by 1 6  
I'm the number decremented twice 4  
I'm the number sumed with my value 8  
PS C:\Users\Luis Angel Guillen\MiApp>
```

65. Declarar un float con valor=10152466.25. Declara un byte que es igual a 5 + el float.

```
66.using System;  
67.namespace MyProgram  
68.{  
69.    class Practical  
70.    {  
71.        static void Main(string[] args0)  
72.        {  
73.            float num1= 10152466.25F;  
74.            byte numbyte = (byte) (5+num1);
```

## C# tarea inicial

```
75.         Console.WriteLine($"float number = {num1}");  
76.         Console.WriteLine($"byte + 5 = {numbyte}");  
77.  
78.     }  
79. }  
80. }
```

The screenshot shows the Visual Studio Code interface. On the left is the sidebar with icons for file, search, and other tools. The main area shows a C# file named `Program.cs` with the following code:

```
1  // MyProgram.cs  
2  namespace MyProgram  
3  {  
4      class Practical1  
5      {  
6          static void Main(string[] args0)  
7          {  
8              byte numbyte = (byte) (5+num1);  
9              Console.WriteLine($"float number = {num1}");  
10             Console.WriteLine($"byte + 5 = {numbyte}");  
11         }  
12     }  
13 }  
14 }  
15 }
```

Below the editor is the terminal window, which displays the command `dotnet run` and its output:

```
PS C:\Users\Luis Angel Guillen\MiApp> dotnet run  
float number = 10152466  
byte + 5 = 23  
PS C:\Users\Luis Angel Guillen\MiApp> [ ]
```

The bottom status bar shows project information: `Projects: MiApp Debug Any CPU Solution file opened: MiApp.sln`, and file settings: `CRLF { } C#`.

- Adjuntar comentario de una y de varias líneas un su código. Imprimir la fecha y hora del sistema.

```
82. using System;  
83. using System.Runtime.InteropServices;  
84. namespace MyProgram  
85. {  
86.     class Practical1  
87.     {  
88.         static void Main(string[] args0)  
89.         {
```

## C# tarea inicial

---

```
90.         float num1= 10152466.25F;
91.         byte numbyte = (byte) (5+num1);
92.         Console.WriteLine($"float number = {num1}");
93.         Console.WriteLine($"byte + 5 = {numbyte}");
94.
95.         //I'm practicing C#
96.         /*A comment of more lines
97.          It continues
98.          And Continues
99.          The End*/
100.
101.        //Fecha y hora del sistema
102.        DateTime ahora = DateTime.Now;
103.        Console.WriteLine($"La fecha y hora de ahora es:
{ahora}");
104.    }
105.    }
106. }
```

## C# tarea inicial

```
Program.cs
C# Program.cs > {} MyProgram > Practica1 > Main(string[])
3  namespace MyProgram
4      class Practica1
5          static void Main(string[] args0)
6          {
7              float num1= 10152466.25F;
8              byte numbyte = (byte) (5+num1);
9              Console.WriteLine($"float number = {num1}");
10             Console.WriteLine($"byte + 5 = {numbyte}");
11
12             //I'm practicing C#
13             /*A comment of more lines
14             It continues
15             And Continues
16             The End*/
17
18             //Fecha y hora del sistema
19             DateTime ahora = DateTime.Now;
20             Console.WriteLine($"La fecha y hora de ahora es: {ahora}");
21
22         }
23     }
24 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS ...

PS C:\Users\Luis Angel Guillen\MiApp> dotnet run  
float number = 10152466  
byte + 5 = 23  
PS C:\Users\Luis Angel Guillen\MiApp> dotnet run  
float number = 10152466  
byte + 5 = 23  
La fecha y hora de ahora es: 15/02/2026 02:05:04  
PS C:\Users\Luis Angel Guillen\MiApp>