

Universidad Rafael Landívar

Facultad de Ingeniería

Licenciatura en Ingeniería en Informática y Sistemas

Pensamiento Computacional

Docente: Luis Aguilar

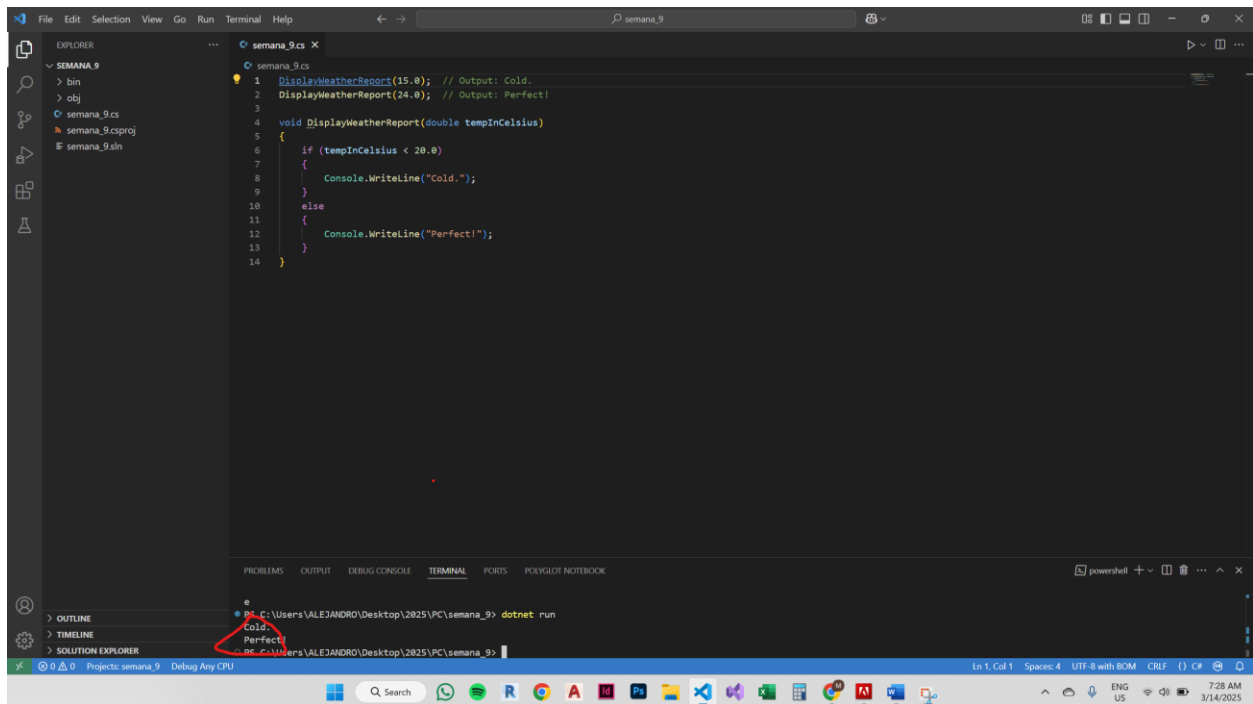
Actividad 3_semana 9

Estudiante: Morales Mazariegos, Martín Andrés

Carné: 1217025

Guatemala, 14 de marzo de 2025

1. Sentencias de selección y condicionales.

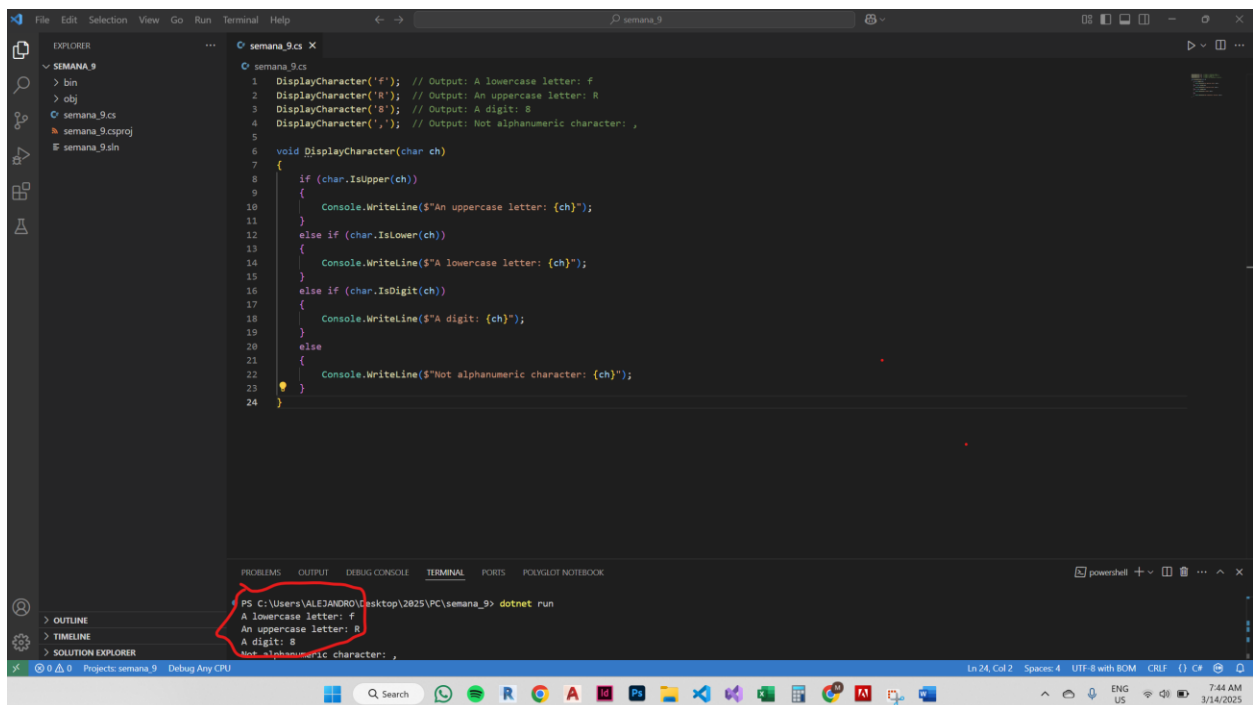


The screenshot shows the Visual Studio IDE with a C# project named 'semana_9'. The code in 'semana_9.cs' defines a method `DisplayWeatherReport` that takes a temperature in Celsius and prints 'Cold.' or 'Perfect!' based on an `if` condition. The terminal shows the command `dotnet run` and the output 'Cold.' and 'Perfect!'.

```
1 DisplayWeatherReport(15.0); // Output: Cold.
2 DisplayWeatherReport(24.0); // Output: Perfect!
3
4 void DisplayWeatherReport(double tempInCelsius)
5 {
6     if (tempInCelsius < 20.0)
7     {
8         Console.WriteLine("Cold.");
9     }
10    else
11    {
12        Console.WriteLine("Perfect!");
13    }
14 }
```

```
PS C:\Users\VALEJANDRO\Desktop\2025\PC\semana_9> dotnet run
Cold.
Perfect!
```

2. Else if

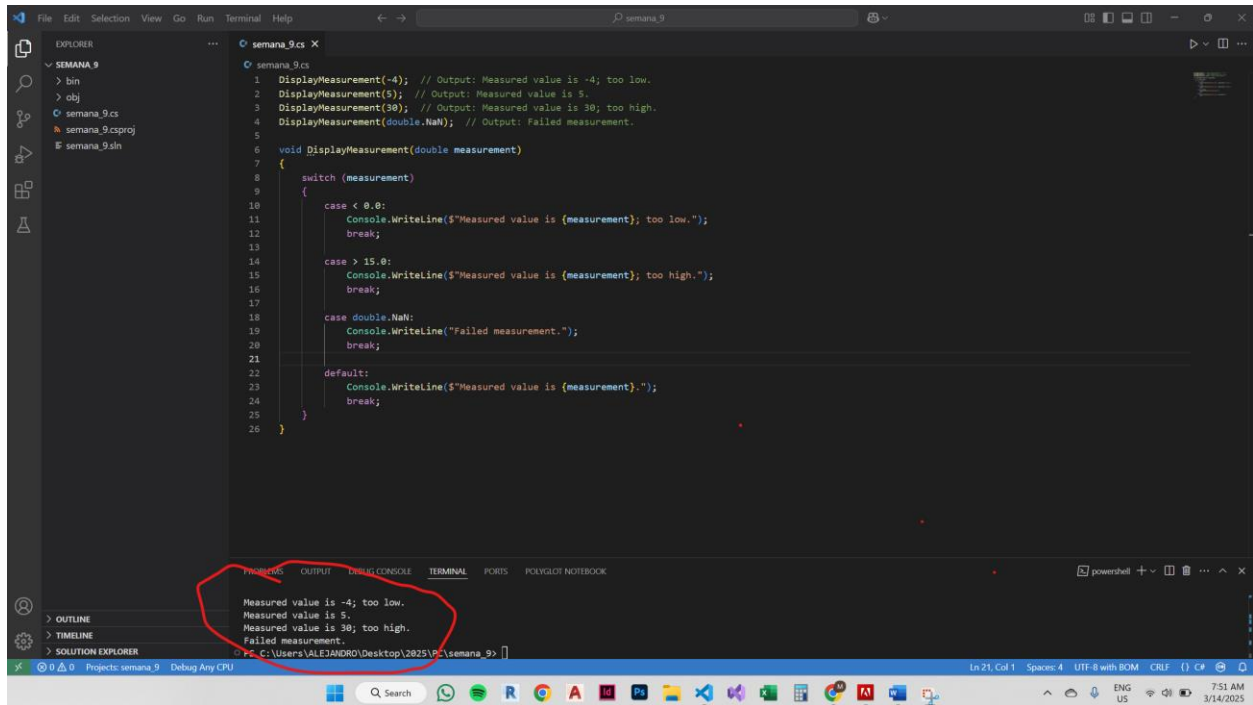


The screenshot shows the Visual Studio IDE with a C# project named 'semana_9'. The code in 'semana_9.cs' defines a method `DisplayCharacter` that takes a character and prints its classification based on an `if-else-if` statement. The terminal shows the command `dotnet run` and the output for the characters 'f', 'R', '8', and ','.

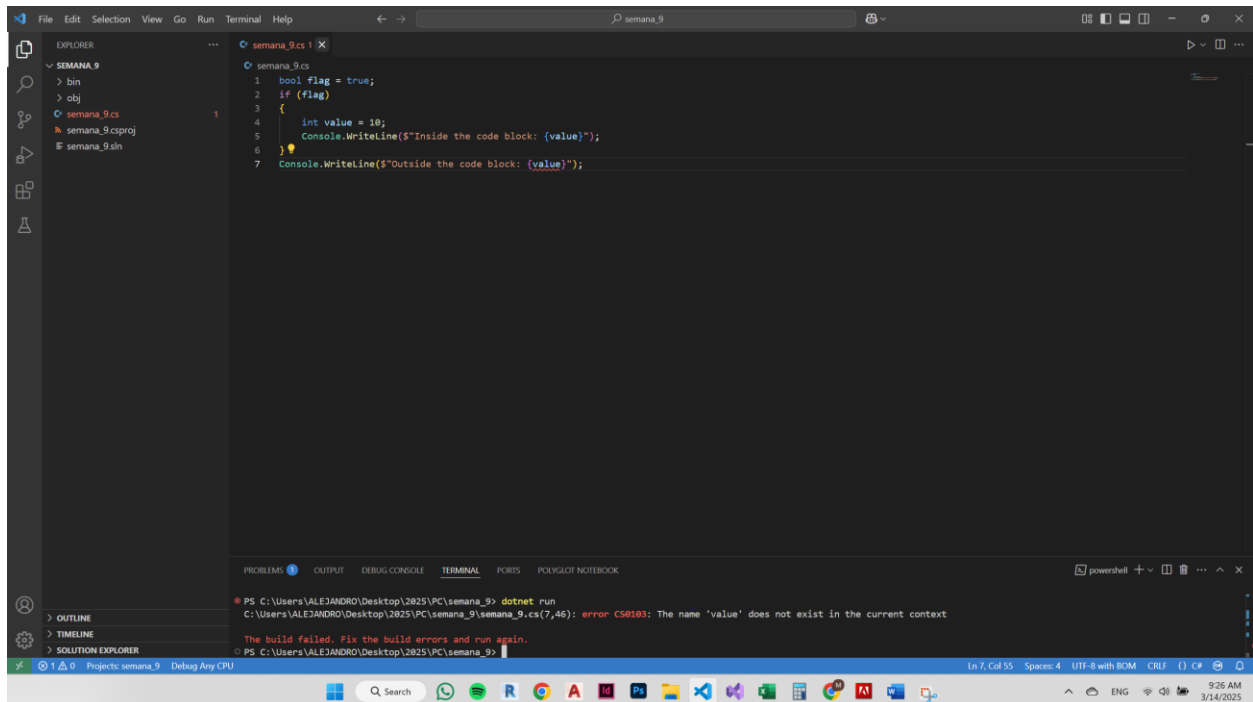
```
1 DisplayCharacter('f'); // Output: A lowercase letter: f
2 DisplayCharacter('R'); // Output: An uppercase letter: R
3 DisplayCharacter('8'); // Output: A digit: 8
4 DisplayCharacter(','); // Output: Not alphanumeric character: ,
5
6 void DisplayCharacter(char ch)
7 {
8     if (char.IsUpper(ch))
9     {
10        Console.WriteLine($"An uppercase letter: {ch}");
11    }
12    else if (char.IsLower(ch))
13    {
14        Console.WriteLine($"A lowercase letter: {ch}");
15    }
16    else if (char.IsDigit(ch))
17    {
18        Console.WriteLine($"A digit: {ch}");
19    }
20    else
21    {
22        Console.WriteLine($"Not alphanumeric character: {ch}");
23    }
24 }
```

```
PS C:\Users\VALEJANDRO\Desktop\2025\PC\semana_9> dotnet run
A lowercase letter: f
An uppercase letter: R
A digit: 8
Not alphanumeric character: ,
```

3. Switch



4.



5.

