C# tarea inicial

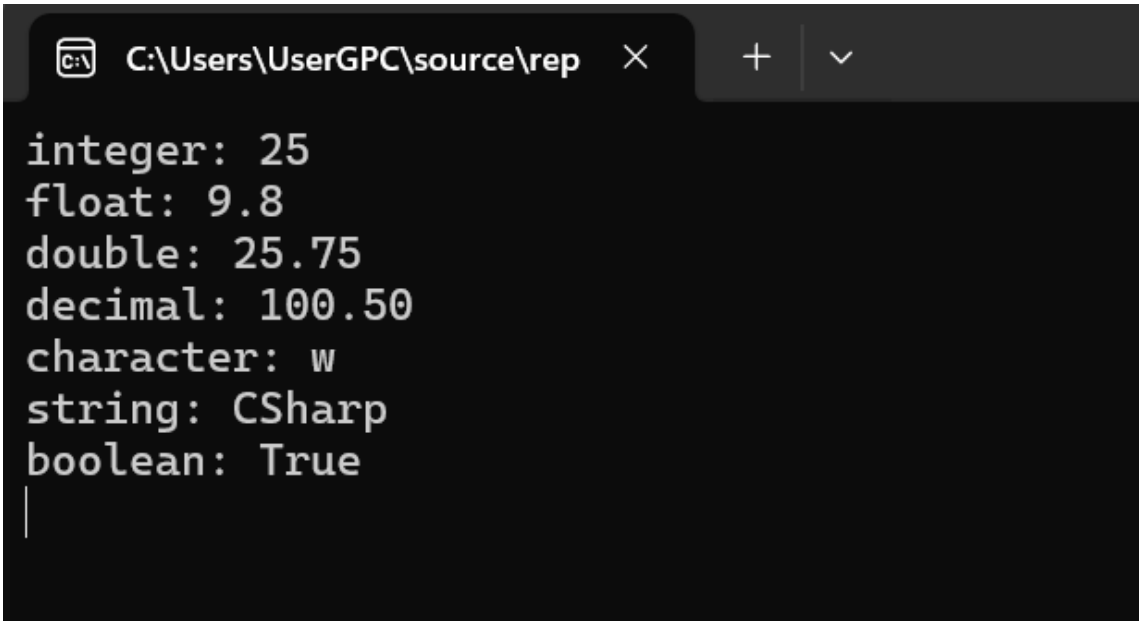
WilcrisDiazVillanueva, 20250911, Viernes

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

```
//Wilcris Diaz Villanueva 2025-0911
int integer = 25;
float floating = 9.8f;
double dobleNum = 25.75;
decimal decimalNum = 100.50m;
char character = 'w';
string text = "CSharp";
bool boolean = true;

Console.WriteLine("integer: " + integer);
Console.WriteLine("float: " + floating);
Console.WriteLine("double: " + dobleNum);
Console.WriteLine("decimal: " +  decimalNum);
Console.WriteLine("character: " + character);
Console.WriteLine("string: " + text);
Console.WriteLine("boolean: " + boolean);

Console.ReadKey();
```



2. 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.

```
//Wilcris Diaz Villanueva 20250911

const double Gravity = 9.81;
Console.WriteLine("Gravity: " + Gravity);
Gravity = 10.9;

/* In this case we cant change its value, Produces an error:
 The left-hand side of an assignment must be a variable, property or indexer
 Cannot assign to Gravity because it is a const  */
```

CS0131	The left-hand side of an assignment must be a variable, property or indexer	Exercise2	Program.cs	5

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

```
//Wilcris Diaz Villanueva 20250911
int number = 15;
Console.WriteLine("Base Number: " + number);

//Increment
number++;
Console.WriteLine("Increased number: " + number);

//Decrement
number--;
Console.WriteLine("Decreased number: " + number);

int sum = number + 10;
int subtraction = number - 5;
int multiplication = number * 2;
int division = number / 3;


Console.WriteLine("\nSum 15 + 10 = " + sum);
Console.WriteLine("Subtraction 15 - 5 = " + subtraction);
Console.WriteLine("Multiplication 15 * 2 = " + multiplication);
Console.WriteLine("division 15 / 3 = " +  division);

Console.ReadKey();
```

```
Base Number: 15
Increased number: 16
Decreased number: 15

Sum 15 + 10 = 25
Subtraction 15 - 5 = 10
Multiplication 15 * 2 = 30
division 15 / 3 = 5
```

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

```
//Wilcris Diaz Villanueva 20250911
float origFloat = 10152466.25f;
byte Bytefloat = 5 + origFloat;
/* It cause a compilation error occurs because
a float value cannot be implicitly converted to a byte. */
```

CS0266	Cannot implicitly convert type 'float' to 'byte'. An explicit conversion exists (are you missing a cast?)	Exercise4	Program.cs	3

5. Adjuntar comentario de una y de varias líneas un su código. Imprimir la fecha y hora d el sistema.

```
/* Wilcris Diaz Villanueva
 2025-0911
 */
//Variables
double TempC;
double TempF;
//Header
Console.WriteLine("Temperature Convert from Celcius to Fahrenheit");
//Output
Console.Write("\nInsert temperature in Celsius: ");
//Input
TempC = Convert.ToDouble(Console.ReadLine());
//Formula
TempF = TempC * (9.0 / 5.0) + 32;
//Result of convertion
Console.WriteLine("Fahrenheit Temperature = " + TempF);

DateTime Hour = DateTime.Now;
Console.WriteLine("\nDate: " + Hour);

Console.ReadKey();
```

```
C:\Users\UserGPC\source\rep
Temperature Convert from Celcius to Fahrenheit

Insert temperature in Celsius: 30
Fahrenheit Temperature = 86

Date: 08/10/2025 05:31:04 p. m.
```