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Module – 2



- **Operators and Expressions**

https://www.tutorialspoint.com/csharp/csharp_operators.htm

- **Loop Iteration**

https://www.tutorialspoint.com/csharp/csharp_loops.htm

- **Break & Continue**

https://www.w3schools.com/cs/cs_break.php

- **Define and usage of array**

Define: An array is defined as the collection of similar type of data items stored at contiguous memory locations. Arrays are the derived data type in C programming language which can store the primitive type of data such as int, char, double, float, etc.

https://www.w3schools.com/cs/cs_arrays.php

- **Define method and use**

Define: we can divide a large program into the basic building blocks known as function. The function contains the set of programming statements enclosed by { }. A function can be called multiple times to provide reusability and modularity to the C program. In other words, we can say that the collection of functions creates a program. The function is also known as *procedure* or *subroutine* in other programming languages.

Passing Value Type Variables

When you pass a value-type variable from one method to another, the system creates a separate copy of a variable in another method. If value got changed in the one method, it wouldn't affect the variable in another method.

Reference Type

Unlike value types, a reference type doesn't store its value directly. Instead, it stores the address where the value is being stored. In other words, a reference type contains a pointer to another memory location that holds the data.

https://www.w3schools.com/cs/cs_method_parameters.php

- **Working with strings**

In C#, a [string](#) is a sequence of Unicode characters or array of characters.

The range of Unicode characters will be **U+0000 to U+FFFF**. The array of characters is also termed as the text. So the string is the representation of the text. A string is represented by a class **System.String**.

The String class is defined in the *.NET base class* library. In other words, a String object is a sequential collection of *System.Char* objects which represent a string. The maximum size of the String object in memory can be *2GB or about 1 billion characters*.

<https://www.geeksforgeeks.org/c-sharp-string-class/>

- **Date and Time Class**

<https://www.javatpoint.com/datetime-in-c-sharp>