

# C# Substring

## C# Substring

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To get Substring of a string in C#, use Substring function on the string.

```
string.Substring(int startIndex, int length)
```

where

`startIndex` is the index position in the string from which substring starts.

`length` is the length of the substring.

`length` is optional. So, if you provide only `startIndex`, the substring starting from `startIndex` till the end of given string is returned by the Substring.

### Example 1 – C# Substring – Using startIndex

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In the following example, we will find the substring with startIndex.

#### Program.cs

```
using System;

namespace CSharpExamples {

    class Program {
        static void Main(string[] args) {
            string str = "HelloWorld";
            int startIndex = 4;

            string substring = str.Substring(startIndex);
            Console.WriteLine("Substring is : "+substring);
        }
    }
}
```

#### Output

```
PS D:\workspace\csharp\HelloWorld> dotnet run
```

```
PS D:\workspace\csharp\HelloWorld> dotnet run
Substring is : oWorld
```

0 1 2 3 4 5 6 7 8 9  
HelloWorld  
startIndex ↑ Substring

## Example 2 – C# Substring – Using startIndex and length

In the following example, we will find the substring with startIndex.

### Programcs

```
using System;

namespace CSharpExamples {

    class Program {
        static void Main(string[] args) {
            string str = "HelloWorld";
            int startIndex = 4;
            int length = 3;

            string substring = str.Substring(startIndex, length);
            Console.WriteLine("Substring is : "+substring);
        }
    }
}
```

### Output

```
PS D:\workspace\csharp\HelloWorld> dotnet run
Substring is : oWo
```

0 1 2 3 4 5 6 7 8 9  
HelloWorld  
startIndex ↑ Substring Length = 3

## Example 3 – C# Substring

In the following example, we will read the string, startIndex and length from the user and then find the substring.

## Programcs

```
using System;

namespace CSharpExamples {

    class Program {
        static void Main(string[] args) {
            Console.Write("Enter a string : ");
            string str = Console.ReadLine();

            Console.Write("Enter startIndex : ");
            int startIndex = Convert.ToInt32(Console.ReadLine());

            Console.Write("Enter length : ");
            int length = Convert.ToInt32(Console.ReadLine());

            string substring = str.Substring(startIndex, length);
            Console.WriteLine("Substring is : "+substring);
        }
    }
}
```

## Output

```
PS D:\workspace\csharp\HelloWorld> dotnet run
Enter a string : Welcome to TutorialKart for C# Tutorial.
Enter startIndex : 5
Enter length : 12
Substring is : me to Tutori

PS D:\workspace\csharp\HelloWorld> dotnet run
Enter a string : TutorialKart
Enter startIndex : 5
Enter length : 3
Substring is : ial
```

## Summary

In this [C# Tutorial](#), we learned to find substring of a string with the help of examples.

### C# Tutorial

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- ◆ [C# Basic Example](#)
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- ◆ [C# Variables](#)
- ◆ [C# Constants](#)

▼ C# Constants

◆ C# if, if-else

◆ C# switch

◆ C# while loop

◆ C# for loop

◆ C# foreach

◆ C# break

◆ C# continue

◆ C# struct

◆ C# enum

◆ C# String

◆ C# Array

◆ C# Command Line Arguments

### C# Console Operations

◆ C# Write to Console

◆ C# Read from Console

### C# Object Oriented Programming Concepts

◆ C# Class & Constructors

◆ C# Encapsulation

◆ C# Polymorphism

◆ C# Method Overloading

◆ C# Interfaces

### C# String Operations

◆ C# String Length

⇒ C# Substring

### C# File Operations

◆ C# Read Text File

◆ C# Write to File

◆ C# Delete File

◆ C# Copy File

## C# Exception Handling

- ◆ C# try-catch
- ◆ C# finally
- ◆ C# throw
- ◆ C# Custom Exception
- ◆ C# SystemException
- ◆ C# DivideByZeroException
- ◆ C# NullReferenceException
- ◆ C# InvalidCastException
- ◆ C# IOException
- ◆ C# FieldAccessException

## C# Collections

- ◆ C# List
- ◆ C# SortedList
- ◆ C# HashSet
- ◆ C# SortedSet
- ◆ C# Stack
- ◆ C# Queue
- ◆ C# LinkedList
- ◆ C# Dictionary
- ◆ C# SortedDictionary

## C# Errors [Solved]

- ◆ C# Error: Class does not contain a constructor that takes arguments