## Introduction

# Strings

A string in C# is an object that represents immutable text as a sequence of Unicode characters (letters, digits, punctuation, etc.). Double quotes are used to define a string instance:

string fruit = "Apple";

Strings are manipulated by calling the string's methods. Once a string has been constructed, its value can never change. Any methods that appear to modify a string will actually return a new string.

Multiple strings can be concatenated (added) together. The simplest way to achieve this is by using the + operator.

string name = "Jane";"Hello " + name + "!";*// => "Hello Jane!"*

For any string formatting more complex than simple concatenation, string interpolation is preferred. To use interpolation in a string, prefix it with the dollar ($) symbol. Then you can use curly braces ({}) to access any variables inside your string.

string name = "Jane";$"Hello {name}!";*// => "Hello Jane!"*

# Instructions

In this exercise you'll be processing log-lines.

Each log line is a string formatted as follows: "[<LEVEL>]: <MESSAGE>".

There are three different log levels:

* INFO
* WARNING
* ERROR

You have three tasks, each of which will take a log line and ask you to do something with it.

#### Get message from a log line

Implement the (*static*) LogLine.Message() method to return a log line's message:

LogLine.Message("[ERROR]: Invalid operation")*// => "Invalid operation"*

Any leading or trailing white space should be removed:

LogLine.Message("[WARNING]: Disk almost full\r\n")*// => "Disk almost full"*

#### 2. Get log level from a log line

Implement the (*static*) LogLine.LogLevel() method to return a log line's log level, which should be returned in lowercase:

LogLine.LogLevel("[ERROR]: Invalid operation")*// => "error"*

#### 3. Reformat a log line

Implement the (*static*) LogLine.Reformat() method that reformats the log line, putting the message first and the log level after it in parentheses:

LogLine.Reformat("[INFO]: Operation completed")*// => "Operation completed (info)"*