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# CMSC 115 Reading Guide

Please enter your responses in red.

## Chapter 4

## Section 4.3 A Preview of Functions … Read

### Section 4.3.1 Read

1. What is an argument (when calling a method or function)? An argument is found inside a method or function as a list. An argument defines how a string should be outputted and is a parameter of the function.
2. What is ‘dot notation’? Dot notation invocation for the argument that will follow, it essentially calls an object or invokes a method.
3. What is method chaining? How is this different from nesting? Method chaining is connecting multiple dot notations together, this is different from nesting as nesting requires parentheses to “nest” arguments to another method call.
4. How can you provide optional arguments? You can provide optional arguments by dotting the string value and providing the argument to override the default.

### Section 4.3.2 Re-Read

1. Okay, so you can use the IPython console to determine which methods an object supports. How can you find out what these method actually do? You can either look up the methods online, or you can type the first parenthesis and wait a moment.

### Section 4.3.3 Read

## Section 4.4 Formatted Output for Strings Read

1. Describe what does the .format() method does on a string? The format method allows low-level kind of typesetting and allows the programmer to indicate how the string will look and appear.
2. How can width and alignment descriptors be used to, for example, print a floating point number with 5 digits before the decimal point, and 3 digits of precision after the decimal point? The width and alignment descriptors allow the programmer to align the string to a side and then cut off the numbers at a certain point with the width.

## Section 4.5 control and Strings Skim

1. What does the enumerate() function do? The enumerate function provides both the index of the character and the character itself.

## Section 4.6 Working with Strings Skim

1. How does the .split() method work? The split method works by taking the calling string and creating substrings of the string, where the substring creation occurs at a particular character(s).