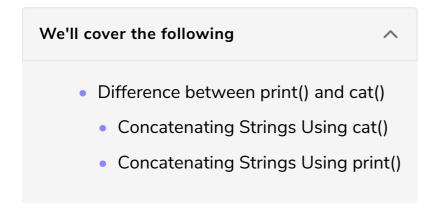
Difference Between print() and cat()

In this lesson, we provide details about the differences between print() and cat().



Difference between print() and cat()#

In a previous lesson, we discussed that both print() and cat() can be used to display text on the screen. Let's have a look at the code again:



The simple printing method in R is to use <code>print()</code>. As its name indicates, this method prints its arguments on the R console. However, <code>cat()</code> does the same thing but is valid only for atomic types (logical, integer, real, complex, character) and names, which will be covered in the later chapters. This means that we cannot call <code>cat()</code> on a **non-empty list** or any type of **object**. So, as its name implies, it converts arguments to characters and concatenates them.

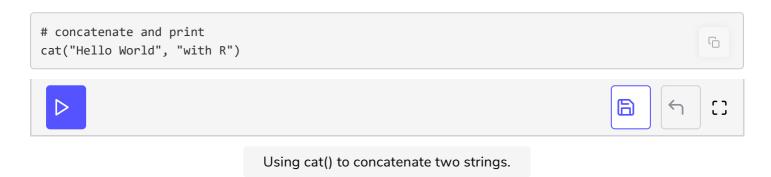
An essential difference between <code>cat()</code> and <code>print()</code> is the <code>class</code> of the object they return. For now, you can assume that class means the type of object. This difference between the two methods can have practical consequences because there will be certain constraints as to what you can do with the <code>returned object</code>.

print() returns a character vector. A vector is an object in R language. We
will be discussing this in the coming chapters. cat() returns an object NULL.

As you can see, <at() prints its arguments without quotes. In essence, <at() displays its content on the screen or in a file.

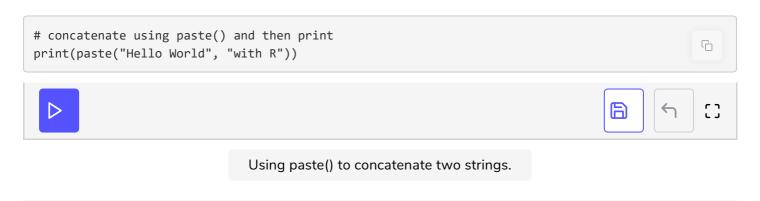
Concatenating Strings Using cat()

The actual usefulness of cat() can be obtained when we have two or more strings that we want to concatenate.



Concatenating Strings Using print()

Since we say that print() and cat() have almost the same functionality, we can
also concatenate multiple strings using print() with the help of paste().



In the next lesson, we have a short exercise for you to test your skills in handling strings.