

It will never terminate, and our program will continue running until it runs out of memory. So, we need to add a break statement to terminate the loop after a certain number of iterations.

About the Instructor

If you want to learn more about Python, you may want to look at the Python course offered by the instructor. It comes with a 30-day money-back guarantee and a certificate of completion, which you can add to your resume. You can find plenty of courses on web and mobile development on the instructor's online coding school at codewithmosh.com.

In Python, negative indices can be used to access elements in a list. The elements in the list are separated by commas. To change an object at a specified index, we use an assignment statement. When we use colon notation, Python returns a new list that excludes the last index. This is how lists are used in Python:

- To get items in a list using negative index
- To change an item at a given index
- To access elements from the start index up to the end index but exclude the end

In Python, objects like your phone, bicycle, or TV remote control have strengths that allow you to operate them. They also have strengths in the real world. Similarly, Python returns a list with an index that includes the elements at index 0, 1, and 2.

If we type a string and press dot, we can see all the available functions or methods in a string object in Python. Lists are also objects, so they have various methods for adding or removing items.

To insert an element in the middle, use the `insert()` method. If you want to remove all items in the list, use the `clear()` method.

To add a new element at the end of the list, use the `append()` method. When you want to iterate over a list and access each item individually, use the built-in `len()` function.