**Cosine similarity** takes the angle between two non-zero vectors and calculates the **cosine** of that angle, and this value is known as the **similarity** between the two vectors. This **similarity** score ranges from 0 to 1, with 0 being the lowest (the least similar) and 1 being the highest (the most similar).

IO module

The [io](https://docs.python.org/3/library/io.html" \l "module-io" \o "io: Core tools for working with streams.) module provides Python’s main facilities for dealing with various types of I/O. There are three main types of I/O: text I/O, binary I/O and raw I/O. These are generic categories, and various backing stores can be used for each of them. A concrete object belonging to any of these categories is called a [file object](https://docs.python.org/3/glossary.html" \l "term-file-object). Other common terms are stream and file-like object.

Argsort() returns an array of indices that would sort the the given array

Flatten() is used to collapse a multi dimensional array into a single dimensional array