Hash map usage in python

What is hash map?

A hash map or a hash table is a data structure used in computer science to store and manage key-value pairs.

It allows for insertion, retrieval, and deletion of values based on their associated keys.

Is use to implement arrays, dictionaries, and some of data structures in programming.

Why we use hash map?

We will talk about some future to use hash map:

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- Fast Retrieval: Hash maps allow for constant-time average-case retrieval of values based on their keys.

- Data Storage: Hash maps are used to store key-value pairs that will help to access it easy.

- Duplicate Elimination: Hash maps can be used to eliminate duplicate entries in a collection.

- Caching: Hash maps are often used in caching mechanisms to store frequently accessed data.

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Hash map usage in python?

In Python, you can use hash maps through the built data structure called a dictionary.

Dictionaries in Python are implemented using hash maps

You can:

- Creating a dictionary.
- Accessing all values in dictionaries by easy by use their keys.
- Adding and Modifying.
- Delete any entries you do not want it.
- Iterating Over a Dictionary.