HASH TABLES & HASHING
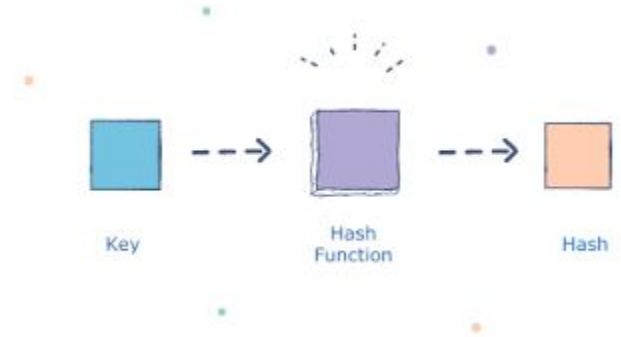## LESSON 10

CODE
FIRST
GIRLS
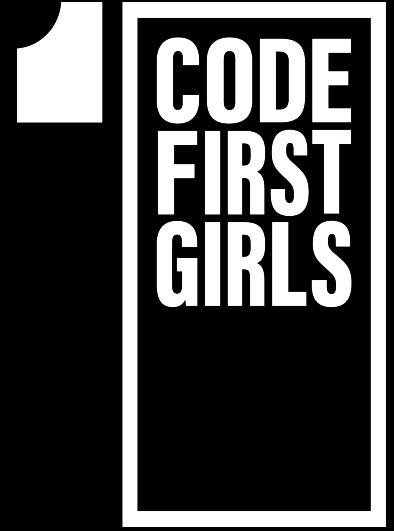
AGENDA

01 Hashing concept explained

02 Hashing method in Python explained

03 Practice and coding

HASHING

Let's watch a DEMO to understand the concepts of HASHING

HASHING REFERENCE

- A **hash table** (dictionary in Python) organizes data so you can quickly look up values for a given key.
- Think of a hashmap as a "hack" on top of an array to let us use flexible keys instead of being stuck with sequential integer "indices."
- **Hashing function** - is a function to convert a key into an array index (an integer).
- **Hash collision** - a situation where two keys hash to the same index in the array
- **Dealing with collision** - instead of storing the actual values in the array, make each array slot to hold a *pointer* to a *linked list* (box) holding the values for all the keys that hash to that index.

SYNONYMS

- Hash
- Hashmap
- Map
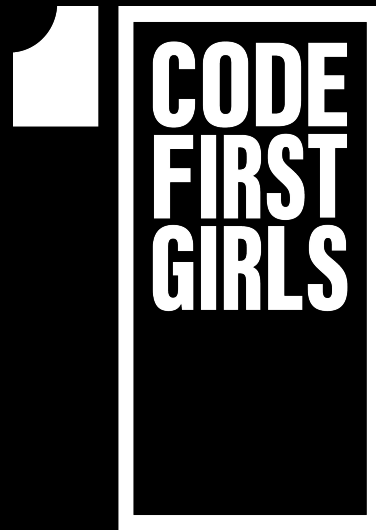- Unordered map
  Dictionary

HASH METHOD IN PYTHON

Let's watch a DEMO to understand the concepts of HASH METHOD

QUEUE & STACK IMPLEMENTATION
EXERCISES & PRACTICE

THANK YOU!

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