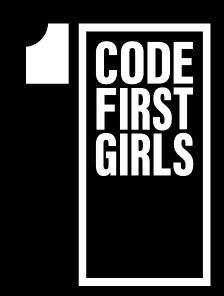
Itertools Module LESSON 7



AGENDA



- **01** Itertools Module
- **02** Types of iterators
- 03 Practice and coding

ITERTOOLS IN PYTHON



The **itertools** module includes a set of functions for working with iterable (sequence-like) data sets.

DOCUMENTATION

 Itertools – Iterator functions for efficient looping

TYPES OF ITERATORS

INFINITE

TERMINATING

COMBINATORIC

COUNT CYCLE REPEAT ACCUMULATE
CHAIN
COMPRESS
DROPWHILE
FILTERFALSE
GROUPBY
ISLICE
STARMAP
TAKEWHILE
TEE
ZIP_LONGEST

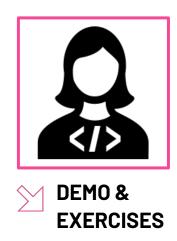
PRODUCT
PERMUTATIONS
COMBINATIONS
COMBINATIONS
_WITH
_REPLACEMENT

Itertools provide us with three different types of iterators

ITERTOOLS

- It is a standard Python library
- It is one of the functional programming modules
- Itertools need to be imported first in order to use its functions in our code
- Itertools functions are very memory efficient and fast
- Itertools functions are best used for complex iteration based algorithms
- We need to have the core knowledge of the main Itertools functions and understand how they are applied in practice.





ITERTOOLS MODULE EXERCISES & PRACTICE



THANK YOU!