

①. List:

- A non homogeneous data structure that stores elements in column of single row or multiple rows.
- The list can be represented by square braces `[]`.
- List allows duplicate elements.
- List can be nested among all.
- Example: `[1, 2, 3, 4, 5]`.
- can be created using `list()` function.
- List is mutable! It can be changed as we need.
- List is ordered.
- creating an empty list is
`l = []`.

②. Tuple:

- A tuple is a non homogeneous data structure that stores elements in a column of single row or multiple rows.
- A tuple can be represented by `()`.
- Tuple allows duplicate elements.
- A tuple can be nested among all.
- Example: `(1, 2, 3, 4, 5)`.
- can be created using `tuple()` function.
- Tuple is immutable and we cannot make any changes once it has been created.
- Tuple is ordered.
- creating an empty tuple:
`t = ()`.

③. Set:

- Set data structure is non homogeneous but stores ~~row~~ elements in rowlike format.
- The set can be represented by `{}`.
- The set cannot allow duplicate elements.
- The set can be nested among all.
- Example: `{1, 2, 3, 4, 5}`.
- A set can be created using `set()` function.
- A set is mutable in a way that it can be changed but elements cannot be duplicated.
- set is unordered.
- creating a set.
`a = set()`
`b = set(a)`

④. Dictionary:

- Dictionary is a non homogeneous data structure that stores key-value pairs.
- The dictionary can be represented by `{}`.
- The dictionary does not allow duplicate keys.
- The dictionary can be nested among all.
- Example: `{'a': 1, 'b': 2, 'c': 3, 'd': 4, 'e': 5}`.
- A dictionary can be created using `dict()` function.
- A dictionary is mutable and keys cannot be duplicated.
- Dictionary is ordered data structure and empty dictionary can be represented by `{}`.