

Programming

Lesson6 - List

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Reminder - Lesson5

- ▶ Conditions
- ▶ Operators
 - ▶ And/Or
 - ▶ `>`, `<`, `>=`, `<=`, `==`

List

- ▶ Collection of values
- ▶ Ordered
- ▶ Changeable
- ▶ Allows different types
- ▶ Allows duplicate members

How to

- ▶ Start with [
- ▶ ends with]
- ▶ Items separated by comma ,

Definition examples:

- ▶ [1, 2, 3, 4, 5, 100, 120]
- ▶ ['Programming', 'Python', 'Welcome']
- ▶ ['This is string', 10, 'another string', 12.2, True]
- ▶ [1.2, 5.77, 0.1, 459.21]
- ▶ ['String1', 'String2']

Usable functions

```
my_list = ['This is string', 10, 'another string', 12.2, True]
```

- ▶ Accessing item: by index number (starts from 0)
 - ▶ `my_list[1]` → 10
 - ▶ `my_list[4]` → True
 - ▶ `my_list[10]` → Error
- ▶ Change item value
 - ▶ `my_list[0] = 'Change'` → `['Change', 10, 'another string', 12.2, True]`
- ▶ List length
 - ▶ `len(my_list)` → 5

Usable functions cont.

```
my_list = ['This is string', 10, 'another string', 12.2, True]
```

- ▶ Appending

- ▶ `my_list.append('new')` → `['Change', 10, 'another string', 12.2, True, 'new']`

- ▶ Removing

- ▶ `my_list.remove(10)` → `['Change', 'another string', 12.2, True]`

- ▶ Inserting (by index)

- ▶ `my_list.insert(0, 'new')` → `['new', 'Change', 10, 'another string', 12.2, True]`

Let's try...😊

- ▶ Open PyCharm:
 - ▶ Create new file: lists.py
 - ▶ Start coding 😊

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Thank you 😊!

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Stay tuned for more!