



# **Introduction to PYTHON**

## **Tuple**

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# Tuple

- An **ordered sequence** of items
  - **Immutable**: i.e. tuples once created cannot be modified.
  - It is defined within parentheses **()**
  - items are separated by commas.
- ```
>>> t = (5, 'program', 1+3j)
```
- We can use the **slicing operator []** to **extract items** but we **cannot change its value**.

# Tuple function

`count(...)`

**`T.count(value)`**

- integer -- return number of occurrences of value

```
>>>t = (10, 20, 30, 40, 10, 60, 10)
```

```
>>>t.count(10)
```

```
3
```

# Tuple function

`index(...)`

**`T.index(value, [start, [stop]])`**

- integer -- return first index of value
- Raises `ValueError` if the value is not present.

```
>>>t = (10, 20, 30, 40, 10, 60, 10)
```

```
>>>t.index(10)
```

```
0
```

```
>>>t = (10, 20, 30, 40, 10, 60, 10)
```

```
>>>t.index(10, 1)
```

```
4
```