**WEEK1**

**Python fundamentals:**

**Data Types:**

* ‘Hello world’: str,
* None: NoneType,
* 15: int,
* 20.14: float,
* function,
* (1, ‘b’, 3, 5): tuple

/\* immutable, can contain mixed data types, written between parentheses () \*/

* [1, ‘b’, 3, 5]: list

/\* mutable (add by append() function), can contain mixed data types, written between square brackets [] \*/

* {‘name’: ‘Asmaa’, ‘surname’: ‘Mirkhan’}: dictionary

/\* labeled list, no order, similar to JSON \*/

**Classes:**

Note: Objects do not have private or protected members

Constructor: (Syntax: \_\_init\_\_) it is not necessary

**Map Function:**

Function signature: map(function, iterable , …)

Note: Useful for analysis