Python for Data Analytics

Topics

Topics to be covered:

1. Standard Library

2. Module

3. Package

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Why do we need to study these topics?

1. Efficient use of functions created by others

2. Proper structure when creating your own Python solutions for problems

Intuition

Standard Library

Football

Computer

Dancing

Singing

Modules/Package

Plumbing

Electricity

House Cleaning

FInances

Standard Library

Built-in functions

print(), max(), min() etc.

Built-in constants

False, True, None etc.

Data types

Int, float, bool, str

File formats

Csv, excel, hdf5 etc.

Module

Arithmetic.py

```
def addition():
        -----
        -----


def subtraction():
        ------
        ------


def multiplication():
        ------
        ------


def division()
        ------
        ------
```

Logical.py

```
def and():
        -----
        -----


def subtraction
():
        ------
        ------


def multiplication():
        ------
        ------

def division()
        ------
        ------
```

Package

Operator

Arithmetic.py

Logical.py

Comparison.py

Importing a module

Why do we need to import a module?

A.py

```
def subtraction():
        ------
        ------


def division():
        ------
        ------
```

B.py

```
def subtraction():
        ------
        ------


def multiplication():
        ------
        ------
```

Importing a module

How do we import a function? Eg - addition

| from Operator.Arithmetic import addition | → | addition(3,5) |

| from Operator import Arithmetic | → | Arithmetic.addition(3,5) |

Thank You