
My Module

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Contents:

1	How to calculate the factorial	3
1.1	Module factorial	3
2	The function Factorial	5
3	Module People	7
4	Teacher Class	9
	Python Module Index	11

This is going to become the future documentation of My Project

How to calculate the factorial

The factorial is a mathematical operation that calculates the product of all the numbers up to the specified integer. For example, the factorial of 5 would be $1*2*3*4*5 = 120$. With our code we can do the following:

```
>>> from my_module.factorial import factorial
>>> factorial(5)
120
```

1.1 Module factorial

This module supplies one function, `factorial()` to calculate the factorial of an integer. You can imported like this:

```
>>> from my_module.factorial import factorial
```

The function Factorial

The function factorial is also well documented.

`my_module.factorial.factorial` (*n*)

Function to calculate the factorial of a number. First import, and then use, for example:

```
>>> factorial(5)
120
>>> factorial(-1)
Traceback (most recent call last):
...
ValueError: n must be >= 0
```

Parameters *n* (*int*) – Number to calculate the factorial

Returns The calculated factorial

Return type *int*

CHAPTER 3

Module People

Defines two classes, `Person` and `Teacher`. You define a person by supplying a name, for example:

```
>>> from my_module.people import Person, Teacher
>>> me = Person('My Name')
>>> print(me.name)
My Name
>>> you = Teacher('Your Name', 'Math')
>>> print(you.name)
Your Name
>>> print(you.course)
Math
```

class `my_module.people.Person(name)`

Class to store a general person information. For example the name.

class `my_module.people.Teacher(name, course)`

Class to store a teacher's information. It subclasses `Person`. You can create a teacher like this:

get_course()

Get the course that the teacher teaches.

set_course(new_course)

Set the course that the teacher teaches

CHAPTER 4

Teacher Class

```
class my_module.people.Teacher (name, course)
```

Class to store a teacher's information. It subclasses *Person*. You can create a teacher like this:

m

`my_module.factorial`, 3

`my_module.people`, 5

F

`factorial()` (in module `my_module.factorial`), 5

G

`get_course()` (`my_module.people.Teacher` method), 7

M

`my_module.factorial` (module), 3

`my_module.people` (module), 5

P

`Person` (class in `my_module.people`), 7

S

`set_course()` (`my_module.people.Teacher` method), 7

T

`Teacher` (class in `my_module.people`), 7, 9