Calculation Docs

None

Table of contents

1. Welcome to MkDocs	3
1.1 Commands	3
1.2 Project layout	3
2. Reference	4
2.1init()	7

1. Welcome to MkDocs

For full documentation visit mkdocs.org.

1.1 Commands

- mkdocs new [dir-name] Create a new project.
- mkdocs serve Start the live-reloading docs server.
- \bullet $\,$ mkdocs $\,$ build $\,$ $\,$ Build the documentation site.
- mkdocs -h Print help message and exit.

1.2 Project layout

```
mkdocs.yml  # The configuration file.

docs/
   index.md  # The documentation homepage.
   ...  # Other markdown pages, images and other files.
```

2. Reference

Compute and return the sum of two numbers.

Examples:

```
>>> add(4.0, 2.0)
6.0
>>> add(4, 2)
6.0
```

Parameters:

Name	Туре	Description	Default
а	float	A number representing the first addend in the addition.	required
b	float	A number representing the second addend in the addition.	required

Returns:

Name	Туре	Description
num	float	A number representing the arithmetic sum of $ {\tt a} $ and $ {\tt b} .$

Compute and return the difference between two numbers.

Examples:

```
>>> subtract(6.0, 4.0)
2.0
>>> subtract(10, 3)
7.0
```

Parameters:

Name	Туре	Description	Default
a	float	A number representing the minuend in the subtraction.	required
b	float	A number representing the subtrahend in the subtraction.	required

Returns:

Name	Туре	Description
num	float	A number representing the arithmetic difference between $ \mathtt{a} $ and $ \mathtt{b} .$

Compute and return the product of two numbers.

Examples:

```
>>> multiply(3.0, 2.0)
6.0
>>> multiply(7, 5)
35.0
```

Parameters:

Name	Туре	Description	Default
a	float	A number representing the multiplicand in the multiplication.	required
b	float	A number representing the multiplier in the multiplication.	required

Returns:

Name	Туре	Description
num	float	A number representing the arithmetic product of ${}_{\rm a}$ and ${}_{\rm b}.$

```
Source code in calculations.py

def multiply(a, b):
    """Compute and return the product of two numbers.

Examples:
    >>> multiply(3.0, 2.0)
    61    6.0
    >>> multiply(7, 5)
    63    35.0

44

65    Args:
    66    Args:
    67    Args:
    68    Args:
    69    Returns:
    70    num (float): A number representing the multiplication the multiplication.
    71
    71
    71
    71
    72
    return float(a * b)
```

Compute and return the quotient of two numbers.

Examples:

```
>>> divide(8.0, 2.0)
4.0
>>> divide(9, 3)
3.0
>>> divide(10, 0)
Traceback (most recent call last):
...
ZeroDivisionError: division by zero
```

Parameters:

Name	Туре	Description	Default
a	float	A number representing the dividend in the division.	required
b	float	A number representing the divisor in the division.	required

Raises:

Туре	Description
ZeroDivisionError	If $ {\ensuremath{b}} $ is zero, indicating division by zero is not allowed.

Returns:

Name	Туре	Description
num	float	A number representing the arithmetic quotient of $ \underline{a} $ divided by $ \underline{b} $.

A test class for the calculations module.

This class is designed to contain unit tests for the functions defined in the calculations module, including add, subtract, multiply, and divide. Each method within this class should test a specific function from the calculations module for correctness, handling of edge cases, and error conditions.

2.1 __init__()

Initializes the TestCalculations class.

This constructor can be used to set up any prerequisites for the tests, such as initializing variables or setting up test data.