

ASSIGNMENT 6.3
on
Documentation and Security

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Task:

1. Provide a template Sphinx command line command which auto documents your project. Explain what each flag and each element of your command do.

```
haseebullah@all-MS-7D35:~/Documents/Assignment_6.3$ sphinx-apidoc -o source ../Assignment_6.3/src --implicit-namespaces
Creating file source/src.rst.
Creating file source/src.arithmetic.rst.
Creating file source/src.calculator.rst.
Creating file source/src.common.rst.
Creating file source/modules.rst.
haseebullah@all-MS-7D35:~/Documents/Assignment_6.3$ make html
```

The above command uses sphinx-apidoc, that is a tool provided by sphinx to auto document the python code files.

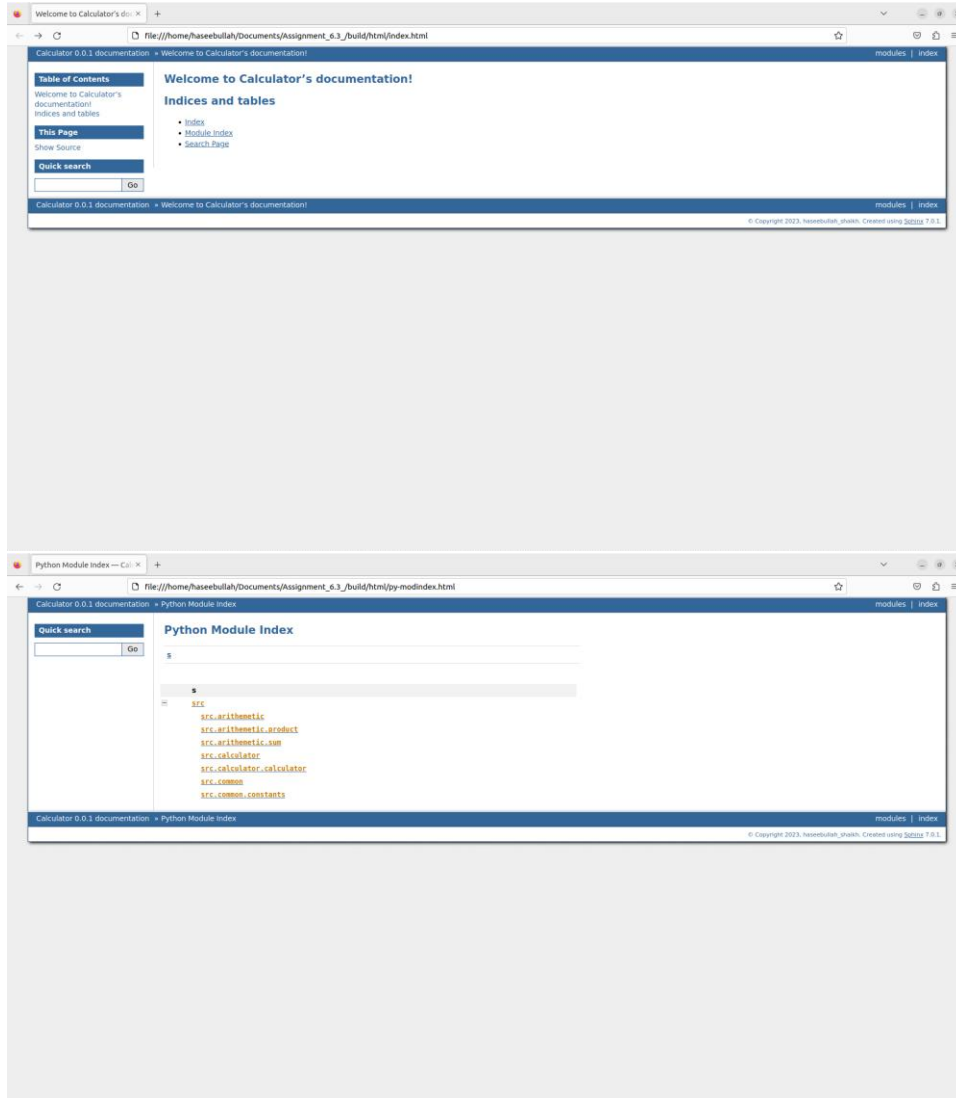
Elements and flags commands:

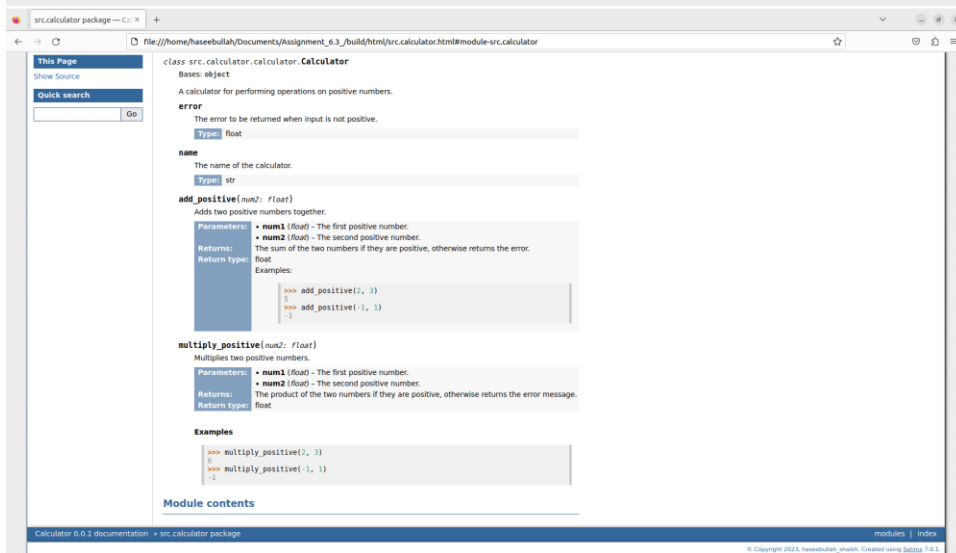
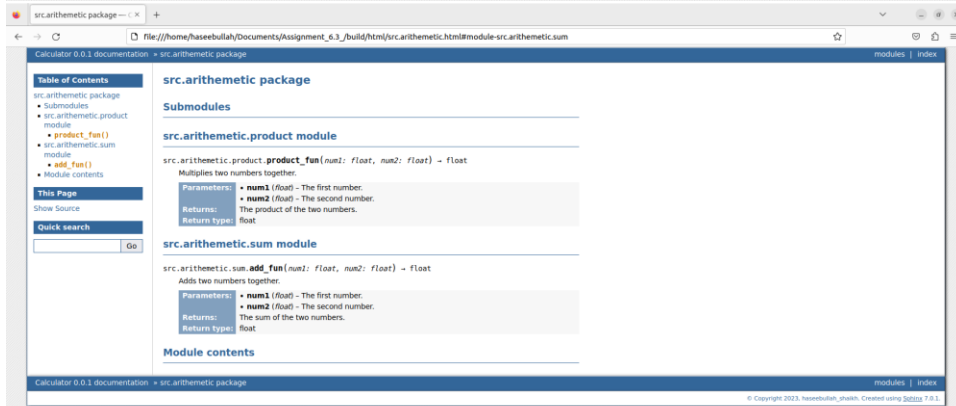
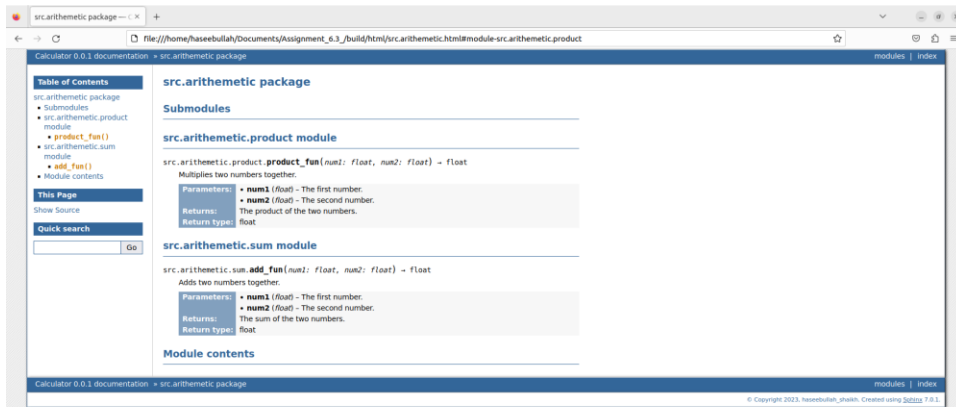
1. **Sphinx-apidoc** : It is a tool which is provided by sphinx which auto documents your project code files,
2. **-o source**: It will store the generated sources and output files in directory named source, it will create by itself if it doesn't exist.
3. **Module path - ../Assignment_6.3/src** : It is the path of project which is to be auto documented.
4. **Flag: --implicit-namespaces** : This flag allows sphinx-apidoc to automatically access the directories within the specified module and generate the docs for the code files within the directories, like we have directories in our task calculator, arithmetic, and common.

2. What flag should you add if you use implicit namespaces in your project?

We should use `--implicit-namespaces` with above command because by default modules are only auto documented by sphinx, it allows sphinx-apidoc to auto document given project in the path by understanding path structure and documents files within the directories and their functions.

HTML documentation Output





src.calculator package — Calculator

Calculator

- calculator
- calculator.error
- calculator.name
- calculator.add_positive()
- calculator.multiply_positive()

Module contents

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src.calculator.calculator module

This module implements the calculator with two arithmetic operations addition and multiplication.

The `calculator.add_positive()` function contains one class, in which there are two functions of above operations. The functions are being imported from arithmetic and directory.

```
class src.calculator.calculator.Calculator
```

Bases: `object`

A calculator for performing operations on positive numbers.

error

The error to be returned when input is not positive.

Type: `float`

name

The name of the calculator.

Type: `str`

add_positive(num2: float)

Adds two positive numbers together.

Parameters:

- num1** (float) - The first positive number.
- num2** (float) - The second positive number.

Returns: The sum of the two numbers if they are positive, otherwise returns the error.

Return type: `float`

Examples:

```
>>> add_positive(2, 3)
5
>>> add_positive(-1, 1)
-1
```

multiply_positive(num2: float)

Multiplies two positive numbers.

Parameters:

- num1** (float) - The first positive number.
- num2** (float) - The second positive number.

Returns: The product of the two numbers if they are positive, otherwise returns the error message.

Return type: `float`

Examples:

```
>>> multiply_positive(2, 3)
6
>>> multiply_positive(-1, 1)
-1
```

src.common package — Calculator

Calculator 0.0.1 documentation

src.common package

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- ERROR_VALUE
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src.common package

Submodules

src.common.constants module

src.common.constants.ERROR_VALUE = -1.0

The error value to be returned when input is not positive.

Type: `ERROR_VALUE` (float constant)

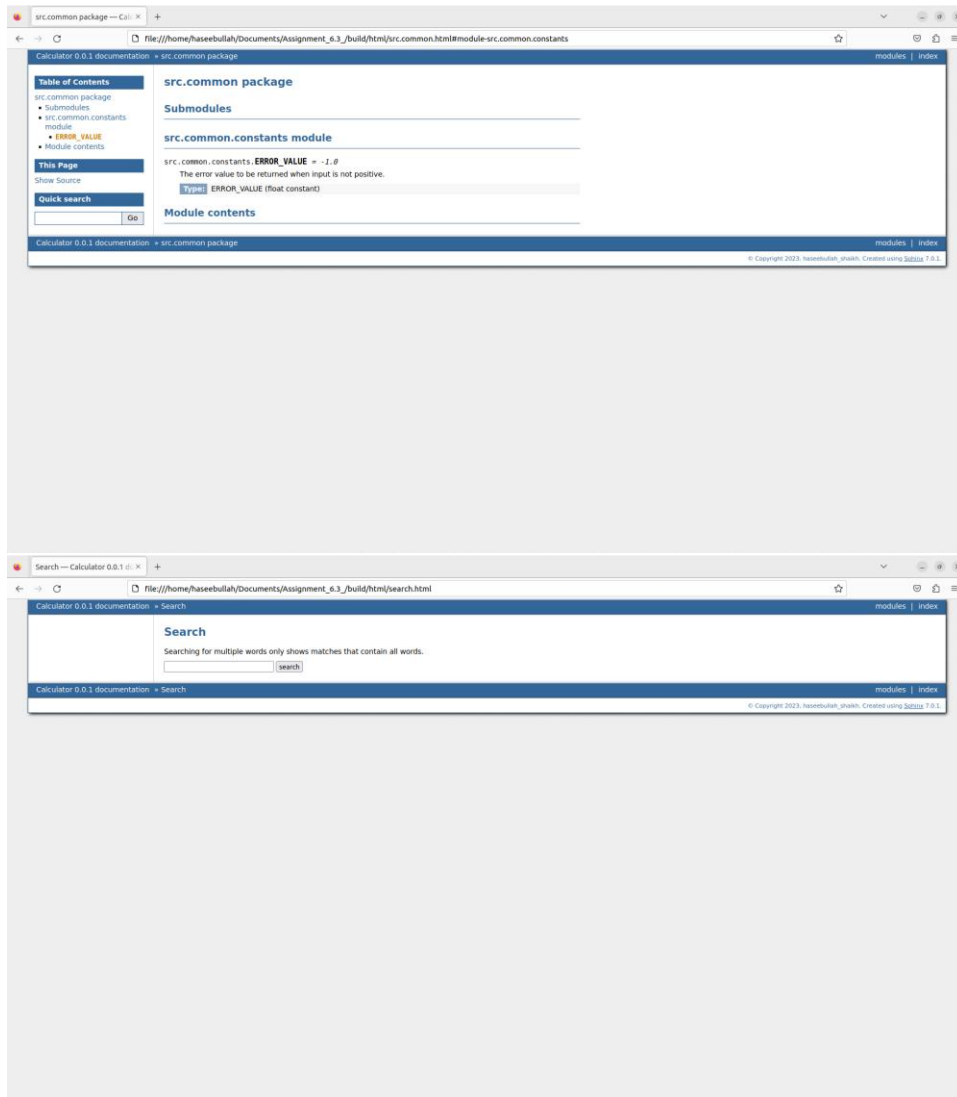
Module contents

Calculator 0.0.1 documentation

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The End 😊