# Sphinx Basics Documentation

***Release 0.1***

**The Hacker Within UIUC**

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# ONE

# TEST_FUNCTIONS MODULE

test_functions.**mean_val**(*a*, *b*)

This function returns the mean of arguments a and b: 0.5(a + b)

**Parameters**

- **a** (*float*) – The first value.
- **b** (*float*) – The second value.

**Returns** The mean value.

**Return type** float

**Example**

```
>>> mean_val(2, 5)
3.5
```

test_functions.**square_root**(*val*, *tol=0.0001*)

This is a docstring. Here I would explain what the square_root() function does. (It calculates the square root. Duh.)

**Parameters**

- **a** (*float*) – The value whose square root you want to calculate.
- **tol** (*float*) – The tolerance of the solver. Smaller tolerance leads to higher precision. Default: 1e-4.

**Returns** The square root of parameter *val*

**Return type** float

**Example**

```
>>> value = square_root(4)
>>> print(value)
2.0
```

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