

## The test passes right off the bat:

## Trying to add an error message:

NE Add a useful error message to the assert statement



Here is an example of how you could add a useful error message to the assert statement in  $\Box$   $\Box$  the test case:

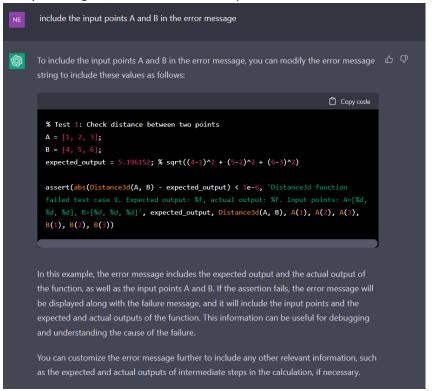
```
% Test 1: Check distance between two points
A = [1, 2, 3];
B = [4, 5, 6];
expected_output = 5.196152; % sqrt((4-1)^2 + (5-2)^2 + (6-3)^2)

assert(abs(Distance3d(A, B) - expected_output) < 1e-6, 'Distance3d function failed test case 1. Expected output: %f, actual output: %f', expected_output, Distance3d(A, B))</pre>
```

In this example, the error message includes the expected output and the actual output of the function, which can be useful for debugging. If the assertion fails, the error message will be displayed along with the failure message.

You can customize the error message to include any information that you find useful for debugging or understanding the cause of the failure. For example, you could include the input points A and B in the error message to help understand why the function is not returning the expected output.

Test passes again, so I ask it to add the points A and B to the error message as it suggested.



## Test passes:

Checking for error message if it fails by manually changing the expected value to be incorrect:

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ChatGPT does a great job at understanding all the prompts here, but it doesn't do a few things that a human likely would. For example, a human would use \n in the error message to make it easier to read. A human would also likely provide the input first, followed by the expected and actual outputs. Here is an example error message.

```
>> Distance3d_test_AI_1
error: Distance3d function failed test case 1.
   Input points: A=[1, 2, 3], B=[4, 5, 6]
        Expected output: 99999995.196152
        actual output: 5.196152.
error: called from
        assert at line 109 column 11
        Distance3d_test_AI_1 at line 7 column 3
>> |
```

Here is the final passing test, incorporating the manual changes to the error message: