

# BMI Test Plan

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## 1. Introduction

This is the test plan document for the BMI program that I have made.

## 2. Testing Resources

The testing resource I'm using is Pytest. I am using this because it was easy to download on my computer and works well with my IDE, which is PyCharm. Another reason why Pytest is useful is because you can get a report on which tests specifically have failed or passed.

## 3. Scope of Testing

In my program, there is one function that does the calculations, which is called `calulcateBMI`, and takes two parameters – pounds and inches. This is the function that I'll be testing, since the other functions specifically deal with input and displaying. You can't exactly test those because they don't take parameters and there is no right or wrong user input. The input function already does error checking, so what I actually need to check is if the `calculateBMI` function is doing the calculations properly.

## 4. Test Results

My repository this week will be updated so that there is a test file that you can view. In there, I explain which cases I'm testing and why. Here I will also add a screenshot of my test results:

```
BMITest.py::testCalculateBMI PASSED
BMITest.py::testCalculateBMI2 PASSED
BMITest.py::testCalculateBMI3 PASSED
BMITest.py::testCalculateBMI4 FAILED
BMITest.py::testCalculateBMI5 FAILED

===== FAILURES =====
----- testCalculateBMI4 -----

  def testCalculateBMI4():
>     assert BMI.calculateBMI(203, 75) == 25.37
E       assert 25.4 == 25.37
E       + where 25.4 = <function calculateBMI at 0x102201120>(203, 75)
E       + where <function calculateBMI at 0x102201120> = BMI.calculateBMI

BMITest.py:13: AssertionError
----- testCalculateBMI5 -----

  def testCalculateBMI5():
>     assert BMI.calculateBMI(85, 53) == 21.27
E       assert 21.3 == 21.27
E       + where 21.3 = <function calculateBMI at 0x102201120>(85, 53)
E       + where <function calculateBMI at 0x102201120> = BMI.calculateBMI

BMITest.py:16: AssertionError
===== short test summary info =====
FAILED BMITest.py::testCalculateBMI4 - assert 25.4 == 25.37
FAILED BMITest.py::testCalculateBMI5 - assert 21.3 == 21.27
===== 2 failed, 3 passed in 6.49s =====
melissachamalan@Melissas-MacBook-Pro Week-5-Programs %
```