

The 'unittest' unit testing framework supports test automation, sharing of setup and shutdown code for tests, aggregation of tests into collections, and independence of the tests from the reporting framework. I'm choosing this as my testing technology because not only was it mentioned in the Wikipedia site, it also does not require any installation and is widely used.

Test Case #1:

- Description: Test BMI for normal range calculation
- Input: 150 lbs, 5ft 2in
- Expected output: BMI = 27.4, Category: Overweight

```
Welcome to the BMI Calculator!
Enter your weight in pounds: 150
Enter your height (feet): 5
Enter your height (inches): 2

Your BMI is: 27.4
You are classified as: Overweight
```

Test Case #2:

- Description: Test BMI for underweight range calculation
- Input: 90lbs, 5ft 7in
- Expected output: BMI = 14.1, Category: Underweight

```
Welcome to the BMI Calculator!
Enter your weight in pounds: 90
Enter your height (feet): 5
Enter your height (inches): 7

Your BMI is: 14.1
You are classified as: Underweight
```

Test Case #3

- Description: Test BMI for obese range calculation
- Input: 250lbs, 5ft 2in
- Expected output: BMI = 45.7, Category: Obese

```
Welcome to the BMI Calculator!
Enter your weight in pounds: 250
Enter your height (feet): 5
Enter your height (inches): 2

Your BMI is: 45.7
You are classified as: Obese
```

Test Case #4 (Fail)

- Description: Invalid height input
- Input: 100lbs, 0ft 5in
- Expected output: Should raise ValueError

```
Welcome to the BMI Calculator!
Enter your weight in pounds: 100
Enter your height (feet): 0
Enter your height (inches): 5

Error: Height must be at least 2 feet (24 inches).
```

Test Case #5 (Fail)

- Description: Invalid weight input
- Input: -135lbs, 5ft 8in
- Expected output: Should raise ValueError

```
Welcome to the BMI Calculator!
Enter your weight in pounds: -135
Enter your height (feet): 5
Enter your height (inches): 8

Error: Weight must be greater than 0.
```