

Unit Testing 1 Solutions

1.

```
def add_two_numbers(a, b):  
    return a + b  
  
def test_adds_two_whole_numbers():  
    expected = 2  
    actual = add_two_numbers(1, 1)  
    assert expected == actual  
  
test_adds_two_whole_numbers()
```

2.

```
def add_two_numbers(a, b):  
    return a + b  
  
def test_adds_pos_neg_numbers():  
    expected = 0  
    actual = add_two_numbers(-100, 100)  
    assert expected == actual  
  
test_adds_pos_neg_numbers()
```

3.

```
def add_two_numbers(a, b):  
    return a + b  
  
def test_adds_two_fp_numbers():  
    expected = 0.9  
    actual = add_two_numbers(0.5, 0.4)  
    assert expected == actual  
  
test_adds_two_fp_numbers()
```

4.

```
def add_two_numbers(a, b):  
    try:  
        return a + b  
    except:  
        return "Invalid Input"  
  
def test_adds_string_to_number():  
    expected = "Invalid Input"  
    actual = add_two_numbers("test", 1)  
    assert expected == actual  
  
test_adds_string_to_number()
```

5.

```
def add_two_numbers(a, b):  
    if not isinstance(a, int) or not isinstance(b, int):  
        return "Invalid input"  
  
    return a + b  
  
def test_adds_two_strings():  
    expected = "Invalid Input"  
    actual = add_two_numbers("test", "case")  
    assert expected == actual  
  
test_adds_two_strings()
```