Lösung 5 - Unit Tests mit Exceptions

grade_list_test.py

```python
import pytest
from grade_list import GradeList, Overflow


@pytest.fixture
def testee() -> GradeList:
    return GradeList()


def test_max_grade_count(testee):
    assert testee.get_max_grade_count() == 5


def test_list_is_empty(testee):
    assert testee.get_current_grade_count() == 0


def test_list_is_not_empty(testee):
    testee.add_grade(5.0)
    assert testee.get_current_grade_count() == 1


def test_list_is_full(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    with pytest.raises(Overflow):
        testee.add_grade(5.0)
    assert testee.get_current_grade_count() == 5


def test_add_valid(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)


def test_add_invalid(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    pytest.raises(Overflow, testee.add_grade, 5.0)


def test_get_notenwert_1(testee):
    pytest.raises(IndexError, testee.get_grade, -1)
```

```python
def test_get_notenwert_2(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    assert testee.get_grade(0) == 5.0
    assert testee.get_grade(4) == 5.0


def test_get_notenwert_3(testee):
    for i in range(testee.get_max_grade_count()):
        testee.add_grade(5.0)
    pytest.raises(IndexError, testee.get_grade, 5)
```

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