

Missão 04

1. Criação do Módulo - cenário 01

Teste com erro

```
# minhas_funcoes.py

def remover_duplicatas(nums):

    nova_lista = []

    for n in nums:

        if n not in nova_lista:

            nova_lista.append(n)

    return nova_lista_1
```

Erro

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

nums = [1, 2, 3, 2, 1, 4]

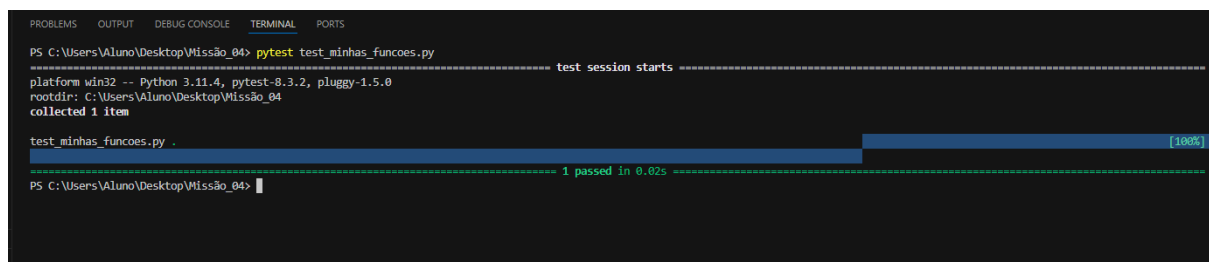
def remover_duplicatas(nums):
    nova_lista = []
    for n in nums:
        if n not in nova_lista:
            nova_lista.append(n)
> return nova_lista_1
E      NameError: name 'nova_lista_1' is not defined

minhas_funcoes.py:7: NameError
===== short test summary info =====
FAILED test_minhas_funcoes.py::test_remover_duplicatas - NameError: name 'nova_lista_1' is not defined
===== 1 failed in 0.07s =====

PS C:\Users\Aluno\Desktop\Missão_04>
```

Teste com sucesso

```
# minhas_funcoes.py
def remover_duplicatas(nums):
    nova_lista = []
    for n in nums:
        if n not in nova_lista:
            nova_lista.append(n)
    return nova_lista
```



The screenshot shows a terminal window with the following content:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Aluno\Desktop\Missão_04> pytest test_minhas_funcoes.py
===== test session starts =====
platform win32 -- Python 3.11.4, pytest-8.3.2, pluggy-1.5.0
rootdir: C:\Users\Aluno\Desktop\Missão_04
collected 1 item

test_minhas_funcoes.py .
===== 1 passed in 0.02s =====
PS C:\Users\Aluno\Desktop\Missão_04> █
```

2. Criação dos Testes Unitários - cenário 02

Teste com erro

```
import py.test

from minhas_funcoes import remover_duplicatas

def test_remover_duplicatas():
    assert remover_duplicatas([1, 2, 3, 2, 1, 4]) == [1, 2, 3, 4]
    assert remover_duplicatas([1, 1, 1, 1, 1]) == [1]
    assert remover_duplicatas([]) == []
    assert remover_duplicatas([10, 20, 20, 30, 30, 40, 50, 50]) == [10,
20, 30, 40, 50]
```

Erro

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
===== ERRORS =====
Open file in editor (ctrl + click) ERROR collecting test_minhas_funcoes.py
ImportError while importing test module 'C:\Users\Aluno\Desktop\Missão_04\test_minhas_funcoes.py'.
Hint: make sure your test modules/packages have valid Python names.
Traceback:
..AppData\Local\Programs\Python\Python311\Lib\importlib\__init__.py:126: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
test_minhas_funcoes.py:1: in <module>
    import py.test
E ModuleNotFoundError: No module named 'py.test'; 'py' is not a package
===== short test summary info =====
ERROR test_minhas_funcoes.py
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Interrupted: 1 error during collection !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
===== 1 error in 0.13s =====
PS C:\Users\Aluno\Desktop\Missão_04> []
```

Teste com Sucesso

```
import pytest

from minhas_funcoes import remover_duplicatas

def test_remover_duplicatas():
    assert remover_duplicatas([1, 2, 3, 2, 1, 4]) == [1, 2, 3, 4]
    assert remover_duplicatas([1, 1, 1, 1, 1]) == [1]
    assert remover_duplicatas([]) == []
    assert remover_duplicatas([10, 20, 20, 30, 30, 40, 50, 50]) == [10,
20, 30, 40, 50]

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Aluno\Desktop\Missão_04> pytest test_minhas_funcoes.py
>>
===== test session starts =====
platform win32 -- Python 3.11.4, pytest-8.3.2, pluggy-1.5.0
rootdir: C:\Users\Aluno\Desktop\Missão_04
collected 1 item

test_minhas_funcoes.py . [100%]

===== 1 passed in 0.01s =====
PS C:\Users\Aluno\Desktop\Missão_04> []
```

3. Executando os Testes com erro - cenário 03

```
pytest test_minhas_funcoes.py
```

4. Correção da Função - cenário 04

Código com erro

```
def calcular_fatorial(n):  
    if n == 0:  
        return 1  
    resultado = 1  
    for i in range(2, n + 1):  
        resultado *= i  
    return resultado
```

5. Executando os Testes novamente

Erro

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  
===== ERRORS =====  
ERROR collecting test_minhas_funcoes.py  
ImportError while importing test module 'C:\Users\Aluno\Desktop\Missão_04\test_minhas_funcoes.py'.  
Hint: make sure your test modules/packages have valid Python names.  
Traceback:  
..\AppData\Local\Programs\Python\Python311\Lib\importlib\__init__.py:126: in import_module  
    return _bootstrap.gcd_import(name[level:], package, level)  
test_minhas_funcoes.py:3: in <module>  
    from minhas_funcoes import remover_duplicatas  
E   ImportError: cannot import name 'remover_duplicatas' from 'minhas_funcoes' (C:\Users\Aluno\Desktop\Missão_04\minhas_funcoes.py)  
===== short test summary info =====  
ERROR test_minhas_funcoes.py  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Interrupted: 1 error during collection !!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
===== 1 error in 0.11s =====  
PS C:\Users\Aluno\Desktop\Missão_04> |
```

Teste com sucesso

```
test_minhas_funcoes.py . [100%]  
===== 1 passed in 0.02s =====  
PS C:\Users\Aluno\Desktop\AAI> |
```

Teste com erro

Cenário 3: Função para Verificar se uma Lista está Ordenada

1. Criação do Módulo

Teste com sucesso

```
test_minhas_funcoes.py . [100%]  
===== 1 passed in 0.01s =====  
PS C:\Users\Aluno\Desktop\AAI>
```

Teste com erro

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
```

```
ImportError while importing test module 'C:\Users\Aluno\Desktop\VAI\test_minhas_funcoes.py'.  
Hint: make sure your test modules/packages have valid Python names.  
Traceback:  
...\AppData\Local\Programs\Python\Python311\Lib\Importlib\_init_.py:126: in import_module  
    return _bootstrap._gcd_import(name[level:], package, level)  
test_minhas_funcoes.py:3: in <module>  
    from minhas_funcoes import verificar_ordenacao  
E ImportError: cannot import name 'verificar_ordenacao' from 'minhas_funcoes' (C:\Users\Aluno\Desktop\VAI\minhas_funcoes.py)
```

```
===== short test summary info =====  
ERROR test_minhas_funcoes.py  
!!!!!!!!!!!! Interrupted: 1 error during collection !!!!!!!!!!!!!  
===== 1 error in 0.13s =====
```

```
PS C:\Users\Aluno\Desktop\VAI>
```

2. Criação dos Testes Unitários

Teste com sucesso

```
test_minhas_funcoes.py . [100%]
===== 1 passed in 0.02s =====
PS C:\Users\Aluno\Desktop\VAI> pytest test_minhas_funcoes.py
===== test session starts =====
platform win32 -- Python 3.11.4, pytest-8.3.2, pluggy-1.5.0
rootdir: C:\Users\Aluno\Desktop\VAI
collected 1 item

test_minhas_funcoes.py . [100%]
===== 1 passed in 0.02s =====
PS C:\Users\Aluno\Desktop\VAI>
```

Teste com erro

```
ImportError while importing test module 'C:\Users\Aluno\Desktop\VAI\test_minhas_funcoes.py'.
Hint: make sure your test modules/packages have valid Python names.
Traceback:
..\.venv\lib\site-packages\Python\Python311\Lib\importlib\init.py:126: in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
test_minhas_funcoes.py:3: in <module>
    from minhas_funcoes import calcular_fatorial
E ImportError: cannot import name 'calcular_fatorial' from 'minhas_funcoes' (C:\Users\Aluno\Desktop\VAI\minhas_funcoes.py)
===== short test summary info =====
ERROR test_minhas_funcoes.py
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Interrupted: 1 error during collection !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
===== 1 error in 0.12s =====
PS C:\Users\Aluno\Desktop\VAI>
```

3. Executando os Testes com erro

4. Correção da Função

```
# minhas_funcoes.py
def verificar_ordenacao(lista):
    return all(lista[i] <= lista[i + 1] for i in range(len(lista) - 1))
```

5. Executando os Testes novamente

```
PS C:\Users\Valuno\Desktop\VAAI> pytest test_minhas_funcoes.py
===== test session starts =====
platform win32 -- Python 3.11.4, pytest-8.3.2, pluggy-1.5.0
rootdir: C:\Users\Valuno\Desktop\VAAI
collected 1 item

test_minhas_funcoes.py . [100%]

===== 1 passed in 0.02s =====
PS C:\Users\Valuno\Desktop\VAAI> |
```

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