

6 Function Decorators

Function Decorators

The `patch` callable can be used as a callable decorator. The patch remains in effect for the duration of the patched callable. Decorators pass replacement objects as arguments to decorated callables.

```
1 from unittest.mock import patch
2 def greeter(name: str):
3     ''' A function used to demonstrate the use of the patch call
4     print(f'Hello, {name}')
```

5 # Replace the built-in print function with a Mock for this func
6 @patch(f'builtins.print')

```
7 def test_greeter(print_mock):
8     # The patch decorator passes mocked objects as input paramet
9     #
10    # With the print function replaced with a mock for the dura
11    # this method no data is printed to the console.
12    greeter('World')
13    # Inspect the mock version of the print function and determ
14    # was provided with the expected input.
15    print_mock.assert_called_with('Hello, World')
16    print_mock.assert_called_once()
17 test_greeter()
18 #####
19 print('No assertion errors')
20
```

Instructions

1. Arrange the `playground.py` file to match the code above.
2. Run `playground.py` in the IDE's terminal pane.

```
1 python3 cloudacademy/playground.py
```

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```
9 #  
10 # With the print function replaced with a mock for the duration of the test,  
11 # this method no data is printed to the console.  
12 greeter('World')  
13 # Inspect the mock version of the print function and determine if  
14 # was provided with the expected input.  
15 print_mock.assert_called_with('Hello, World')  
16 print_mock.assert_called_once()  
17 test_greeter()  
18 #####  
19 print('No assertion errors')  
20
```

Instructions

1. Arrange the **playground.py** file to match the code above.
2. Run **playground.py** in the IDE's **terminal** pane.

```
1 python3 clouddacademy/playground.py
```

No assertion errors

★ Proceed to the next step ★

✓ Validations

- ☐ On Track - Function Decorators
Ensure your lab environment is on-track
- Python

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1h 40m

