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**Python Decorators: How to Create and Use with Examples**

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| **Topic Name** | **Description** | **Approximate Number of Words** |
| Introduction | * Python Objects * First-Class Objects. * Inner Functions. * Higher-Order Functions. | 150 |
| Introduction to Decorators | * Definition * Benefits * Syntax of Python Decorators * Your first decorator | 250 |
| How to Add Arguments to Decorators in Python | * Passing the values to the decorated function * Passing the value to the decorator | 350 |
| Returning Values from Decorated Functions | Step by step with code | 100 |
| Reusing a Decorator on Multiple Functions | Code and explanation on why we will use \*args and \*\*kwargs | 100 |
| Multiple Decorators on a Single Function | Step by step with code | 100 |
| A Decorator Within a Function | Step by step with code | 100 |
| Preserving function Metadata | Explanation with code | 100 |
| Decorating a Class | * With a function decorator | 100 |
| Classes as a Decorator | * Decorate a class * Decorate a function | 100 |
| Built-in Fancy Decorators | With various codes | 150 |
| Stateful Decorators | Explanation with code | 100 |
| Example Use Cases of Decorators | Numerous explanations and code | 500 |
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