Uplatz

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Training Provider for IT and Certification Courses

PYTHON PROGRAMMING (advanced)

Section 1: Immutable Data Structures

1. Functional Programming Course Overview

2. What Is Functional Programming?

3. Mutable Data Structures: Lists and Dictionaries

4. Immutable Data Structures: namedtuple

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5. Danger Zone: Mixing Mutable and Immutable Data Structures

6. Immutable Data Structures: Tuples

Section 2: The filter() Function

5 Lessons 13m

1. The filter() Function: Overview

2. What is the filter() Function?

3. Storing Filtered Data in a Tuple

4. Why Use the filter() Function?

5. Filtering List Comprehensions

Section 3: The map() Function

5 Lessons 11m

1. The map() Function: Overview

2. What is the map() Function?

3. How to Use the map() Function

4. The map() Function vs Generator Expressions

5. Why Use the map() Function?

Section 4: The reduce() Function

4 Lessons 16m

1. The reduce() Function: Overview

2. What Is the reduce() Function?

3. Why Use the reduce() Function?

4. Grouping Data With itertools.groupby()

Section 5: Parallel Processing With multiprocessing

7 Lessons 16m

1. Parallel Processing With multiprocessing: Overview

2. Multiprocessing Testbed Overview

3. The multiprocessing Module

4. Measuring Execution Time in the multiprocessing Testbed

5. How to Create a multiprocessing.Pool() Object

6. How to Use multiprocessing.Pool()

7. Parallel Processing With multiprocessing: Conclusion

Section 6: Parallel Processing With concurrent.futures

5 Lessons 9m

1. Parallel Processing With concurrent.futures: Overview

2. The concurrent.futures Module

3. How Functional Programing Makes Parallel Processing Simple

4. concurrent.futures vs multiprocessing

5. When to Use concurrent.futures or multiprocessing