

Master Python Programming

Master Python Programming

1. Python Programming Fundamentals
2. Core Python Programming
3. Advanced Python Programming
4. Python Database Programming
5. Python Data Analytics

Addon Advantage: -

1. Pattern Matching Programs (100+ Pattern Matching Examples)
2. Python Programming Examples/Use cases
3. Python Programming FAQ's & Answers

By

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Master Python Programming

Python Programming Fundamentals

1. Python Programming Introduction

- 1) What is Python?
- 2) Where can we use Python?
- 3) Who can learn Python?

2. Python Programming Features

3. How to Develop Python Programming?

- 1) Python Programming Introduction
- 2) Python Programming Modes Introduction
 - a) Interactive Mode
 - b) Script Mode

4. Python Installation on Windows Operating System

- 1) Python Installation
- 2) Anaconda Installation
- 3) Jupyter Notebook
- 4) PyCharm IDE Installation
- 5) Spider IDE
- 6) VSCode

5. First Python Program

6. Differences between Interactive Mode and Script Mode

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Core Python Programming

1. Core Python Programming Introduction
2. Language Fundamentals
3. Python Operators
4. Python Input and Output Statements
5. Python Flow Control Statements
6. Python Strings
7. Python Collections – tuple
8. Python Collections – list
9. Python Collections – set and frozen set
10. Python Collections – dictionary

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Advanced Python

1. Modular Programming (Modules, Packages and Libraries)
2. Functional Oriented Programming (Functions, Recursive Functions and Lambda Functions)
3. Object Oriented Programming
4. File Handling
5. Exception Handling
6. Logging in Python
7. Iterators, generators and decorators
8. Regular Expressions
9. Multithreading

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Python Database Programming

1. SQLite with Python Database Programming
2. MySQL with Python Database Programming
3. Oracle with Python Database Programming
4. Python with Other Databases Integration

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Python Data Analytics

1. Python NumPy
2. Python Pandas
3. Python Matplotlib

Python NumPy

1. Introduction to NumPy
2. NumPy Arrays
3. NumPy Array Indexing
4. 2-D and 3Dimensional Arrays
5. NumPy Mathematical operations
6. NumPy Flattening and reshaping
7. NumPy Horizontal and Vertical Stack
8. NumPy linspace and arrange
9. NumPy asarray and Random numbers
10. NumPy iterations and Transpose
11. NumPy Array Manipulation
12. NumPy and matplotlib
13. NumPy Linear Algebra
14. NumPy String Functions
15. NumPy operations and use cases
16. NumPy Working Examples

Python Pandas

1. Introduction to Pandas
2. Creating Pandas Series
3. Creating Data Frames
4. Pandas Data Frames from dictionaries
5. Pandas Data Frames from list
6. Pandas Data Frames from series
7. Pandas Data Frames from CSV, Excel
8. Pandas Data Frames from JSON
9. Pandas Data Frames from Databases
10. Pandas Data Functionality
11. Pandas Timedelta
12. Creating Data Frames from Timedelta
13. Pandas Groupings and Aggregations
14. Converting Data Frames from list
15. Creating Functions
16. Converting Different Formats
17. Pandas and Matplotlib
18. Pandas use cases

Master Python Programming

Python Matplotlib

Introduction to matplotlib

Installing matplotlib

Generating graphs

Normal plottings

Generating Bargraphs

Histograms

Scatter plots

Stack plots

Pie plots

Matplotlib working examples

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