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Core Python Programming

Wesley J. Chun



Core Python Programming:

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Core Python Programming Wesley J Chun,2006-09-18 Praise for Core Python Programming The Complete Developer's Guide to Python New to Python The definitive guide to Python development for experienced programmers Covers core language features thoroughly including those found in the latest Python releases learn more than just the syntax Learn advanced topics such as regular expressions networking multithreading GUI Web CGI and Python extensions Includes brand new material on databases Internet clients Java Jython and Microsoft Office plus Python 2.6 and 3 Presents hundreds of code snippets interactive examples and practical exercises to strengthen your Python skills Python is an agile robust expressive fully object oriented extensible and scalable programming language It combines the power of compiled languages with the simplicity and rapid development of scripting languages In Core Python Programming Second Edition leading Python developer and trainer Wesley Chun helps you learn Python quickly and comprehensively so that you can immediately succeed with any Python project Using practical code examples Chun introduces all the fundamentals of Python programming syntax objects and memory management data types operators files and I/O functions generators error handling and exceptions loops iterators functional programming object oriented programming and more After you learn the core fundamentals of Python he shows you what you can do with your new skills delving into advanced topics such as regular expressions networking programming with sockets multithreading GUI development Web CGI programming and extending Python in C This edition reflects major enhancements in the Python 2.x series including 2.6 and tips for migrating to 3 It contains new chapters on database and Internet client programming plus coverage of many new topics including new style classes Java and Jython Microsoft Office Win32 COM Client programming and much more Learn professional Python style best practices and good programming habits Gain a deep understanding of Python's objects and memory model as well as its OOP features including those found in Python's new style classes Build more effective Web CGI Internet and network and other client server applications Learn how to develop your own GUI applications using Tkinter and other toolkits available for Python Improve the performance of your Python applications by writing extensions in C and other languages or enhance I/O bound applications by using multithreading Learn about Python's database API and how to use a variety of database systems with Python including MySQL Postgres and SQLite Features appendices on Python 2.6/3 including tips on migrating to the next generation

Core Python Programming Wesley J. Chun,2006 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version The Complete Developer's Guide to Python New to Python The definitive guide

Core Python Programming S Wang,2024-05-23 Core Python Programming A Concise Guide

is your essential resource for mastering Python the versatile and widely used programming language This comprehensive guide provides clear and systematic coverage of key concepts including data types control flow functions and object oriented programming Whether you re a beginner seeking a solid foundation or an experienced developer aiming to deepen your expertise this book offers practical examples expert insights and best practices to elevate your Python programming skills Dive into topics like file handling exception management modules and packages and leverage standard libraries and third party modules effectively Unlock the full potential of Python with this indispensable guide and enhance your coding proficiency with confidence

Basic Core Python Programming Meenu Kohli,2021-04-21 Learn the most popular software programming language in easy steps KEY FEATURES _ Extensive coverage on fundamentals and core concepts of Python programming _ A complete reference guide to crack Python Interviews and exams _ Includes ample MCQs and solved examples to prepare you for theory and practical exams _ Easy to understand text with explanatory illustrations

DESCRIPTION Basic Core Python Programming is an absolute beginners book It focuses on the fundamentals of Python programming and simplifies coding concepts This book makes it easy to learn the concepts of Python variables Expressions Decision structures and Iteration Equipped with a lot of exercises and Q As you don t just practice the programming but also gain an in depth understanding of the basic concepts of Python You will start your journey right from how to go about Python installation and start using its interactive development environment and go on to learn how to build logic and implement it with coding You will explore different types of data operators and in built functions This book covers numerous coding examples that will help you understand the importance of each data type how to work with each one of them and when to use them You can learn some more practical useful concepts like how to implement control structures and use them for decision making and controlling the program flow WHAT YOU WILL LEARN _ Stronghold on Python variables expressions decision structures and iterations _ Practical knowledge on how to work with various data types operators and in built functions _ Learn to implement strings lists arrays and control structures _ Learn how to control the program flow and how to use it for decision making _ A great reference book on Python basics for software programmers WHO THIS BOOK IS FOR This book is highly appealing to all tech savvy students programming enthusiasts IT undergraduates and computer science students You do not need any prior knowledge of programming to begin with this book as long as you have the interest to learn to program

TABLE OF CONTENTS 1 Introduction 2 Python Basics 3 Numbers Operators and In built Functions 4 Strings 5 Lists and Arrays 6 Tuples and Dictionaries 7 Sets and Frozen Sets 8 Program Flow Control in Python **Advance Core Python Programming** Meenu Kohli,2021-06-08 Mastering Advanced Python Programming KEY FEATURES In depth coverage on fundamentals of functions recursion classes inheritance and files Mastery of advanced topics Database connectivity Errors and Exception Testing and Debugging threads Data visualization and Data analysis In depth coverage of advanced concepts such as data structures and algorithms Simplifies GUI and Widgets Learn to connect GUI with MySQL to create a complete

working application Introduction to Flask Thorough detailed and complete coverage of all topics along with ample coding examples and illustrations DESCRIPTION Advance Core Python Programming is designed for Programmers who have a good understanding of Python basics and are ready to take the next steps For entry level Python programmers willing to dive deeper into programming this book provides a path that will help them to add innovative features to their applications This book starts by introducing you to the concept of Functions and Recursion and then moves on to higher levels of introducing you to OOP concepts Files integrating Python with database threading errors exceptions testing debugging data visualization data analysis GUI data structures and algorithms All these topics are the need of the hour and this book simplifies all these critical and essential concepts of Python for you Knowledge of these topics will ease the functioning of your envisioned application Throughout the book you will have access to several coding examples which will help you to understand the real practical application of advanced Python concepts and you will be able to work on any kind of Python project with confidence WHAT YOU WILL LEARN Learn advanced Python topics in simple language Learn how to code in easy to follow steps Learn to create your own classes and functions Learn to work with Files Learn to configure MySQL and make Python programs interact with the MySQL database Get to know different types of errors exceptions and ways to test debug and rectify them Learn how to use Python for Data Visualization and Data Analysis Learn to Create GUI features and add Widgets Learn about data structures and algorithms Learn to create and develop stack queues trees and linked lists Explore Flask its features and how to use it to build web applications Learn to work on complex code by following simple step by step instructions Prepare for theory and practical exams related to advanced Python Concepts WHO THIS BOOK IS FOR This book is highly appealing to all tech savvy students programming enthusiasts IT graduates and computer science professionals who want to build strong proficiency in building Python applications Prior understanding of Python basic coding concepts like variables expressions and control structures is required to begin with this book You can also read Basic Core Python Programming to develop strong fundamentals before you start with this book TABLE OF CONTENTS 1 Functions and Recursion 2 Classes Objects and Inheritance 3 Files 4 MySQL for Python 5 Python Threads 6 Errors Exceptions Testing and Debugging 7 Data Visualization and Data Analysis 8 Creating the GUI form and Adding Widgets 9 MySQL and Python Graphical User Interface 10 Stack Queue and Deque 11 Linked List 12 Trees 13 Searching and Sorting 14 Getting Started with Flask *Python Coding and Programming* Michael Learn,2021-03-22 55 % discount for bookstores Now At 34 99 instead of 54 23 Your customers will never stop reading this guide UPDATE CHAPTERES 10 AND 11 Would you like to learn the hard core of Python coding You are the type of genius the great eBook in the next few lines is dedicated to check it out Learning the complex processes of Python Programming is a tough task most people don t want to try Even Computer Engineering Tech and related fields do not want to to even imagine the interest of a non tech related fan Why It is for the same reason it is complicated It has different stages that can be easily mixed up But isn t there a way you can learn the hardcore easily

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Python Fundamentals Wesley Chun,2009 Computing and information technology **Core Python Applications Programming** Wesley Chun,2012 Rev ed of Core Python programming Wesley J Chun c2007 [Mastering in Python Programming](#) Saurav Sau, This book is designed for beginners and experts Table of Content 1 Introduction 2 Python Variable 3 Python Data Type 4 Python Operator 5 Python if else 6 Python Loops 7 Python String 8 Python List 9 Python Tuples 10 Python Function And many more

A Journey to Core Python Girish Kumar ,Dr. Ajay Shriram Kushwaha,Raji Ramakrishnan Nair,Subhashiny G,286-01-25 Come and join hands together to learn Python ,from scratch This book will help

you understand Python from scratch and help you build a career in the field of programming

KEY FEATURES Exciting examples and a solid grasp of the principles of Python An easy guide for absolute beginners to enjoy coding while learning Exception handling OOPs fundamentals inheritance and reusability explained in detail

DESCRIPTION The book offers to teach a novice programmer the fundamentals of Python programming from the ground up The book provides a brief history of Python followed by exploring Python s fundamental concepts features and applications in detail The book explains Python identifiers keywords variables and assignments as well as basic operators and decision making statements This book covers repetitive code strings and integers dictionaries functions and modules files exception handling and object oriented programming in all of its variants The book explains concepts with illustrations thus making it simple for even the most unskilled reader to grasp the basics of the code execution flow By the end of this book you will have a firm grasp of all of Python s programming ideas Additionally it will help you to prepare for any upcoming job interviews with your comprehensive Python understanding

WHAT YOU WILL LEARN Quickly grasp the concepts of lists tuples dictionaries and functions Examine Python s effective use of exception handling Makes object oriented programming more understandable Discover when and how to use Python s decision making statements Use Python to perform and execute file operations

WHO THIS BOOK IS FOR This book is for web application developers entry level developers and IT graduates who want to learn the entire web application development by developing a solid hold on Python principles Basic programming knowledge is recommended but not required

TABLE OF CONTENTS 1 Introduction 2 Basic Syntax 3 Variable Types 4 Basic Operators 5 Decision Making 6 Repeating Code Using Loops 7 Numbers 8 Strings 9 Lists 10 Tuples 11 Dictionaries 12 Functions 13 Modules 14 Files I O 15 Exception Handling 16 Object Oriented Programming

[Introduction to Computing Using Python](#)

Ljubomir Perkovic,2012-04-13 Perkovic s Introduction to Programming Using Python is more than just an introduction to programming It is an inclusive introduction to Computer Science that takes the pedagogical approach of the right tool for the job at the right moment and focuses on application development The approach is hands on and problem oriented with practice problems and solutions appearing throughout the text The text is imperative first but does not shy away from discussing objects early where appropriate Discussions of user defined classes and Object Oriented Programming appear later in the text when students have more background and concepts can be motivated Chapters include an introduction to problem solving techniques and classical algorithms problem solving and programming and ways to apply core skills to application development

Core PHP Programming Leon Atkinson,2001 Core PHP Programming Second Edition is the first complete practical guide to PHP 4 for experienced Web developers Fully updated to reflect PHP 4 0 s breakthrough features and performance it covers every technique you need to build robust fast Web applications Leading PHP developer Leon Atkinson starts with a high level overview of PHP how it evolved and how it appears to the developer Next Atkinson reviews the key building blocks of PHP scripts including variables operators and expressions conditional branches and loops Review

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Python Made Simple Beri Rydhm,2019-09-20 Take tiny steps to enter the big world of data science through this interesting guideKey features Acquire basic concepts related to python programming Understand the core functionalities of Python Programming Provide the information regarding idle IDE Computational Problem solving in Python Object oriented concepts in Python Database connectivity with Python Description In the last few years python gained popularity and became the first choice of the students teachers as well as professionals It is being used in different fields such as education software development website development and also in various advanced research In the field of education it allows students to learn the programming language in an easier and efficient manner In the information technology field it can be used as a language for creating softwares as well as for web developments It can be integrated with different platforms like Django In research

Python programming can be used in simulation or it can be used for machine learning techniques The primary goal of this text is to create a pedagogically sound and accessible textbook that emphasises on core concepts of Python programming The book contains lots of practical examples to show the working of a particular code construct The book can be very helpful in order to learn the basic and advance concepts of python programming In the beginning of the book the focus is on the basic concepts related to core python programming starting from the installation phase of python interpreter to building the concepts for the reader towards python programming Then the book moves towards the concept of different statements and programming conditions that python programming can handle in an easier manner It then moves to the concepts related to object oriented programming and at last the reader will get to know about the database connectivity with the python program What will you learn You can learn the core concept related to python programming You will get to learn how to program in python You can learn how Python programming helps to solve computational problems By reading this book you can learn how to work with python You will get familiarity with the python programming concepts You will learn how to operate idle IDE and how it can be used to write python program in easier way Who this book is for The book is intended for anyone who wish to learn python programming language This book also covers the syllabus of various universities and readers can use this book as a help in their academic education This book can be used by readers to start with python programming from basics to advanced level even without having any prior knowledge of python programming

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About the author Rydhm Beri teaches in BBK DAV College for Women Amritsar as an Assistant Professor since last three years and has 5 years of experience in the field of education and 3 years of experience in research Her research interests include MANETs Cloud computing IOT Fog Computing She has done M Sc Computer Science from BBK DAV College for Women Amritsar and MCA from Lovely Professional University and is currently pursuing Ph D in the field of IOT and embedded systems She has a deep knowledge of programming and has worked for different projects in languages like Net Java PHP and Python Currently she is working on Python programming and relate it to IOT and Machine learning field She has published 19 research papers out of which 17 are international and 2 are national research papers She has also been working as a reviewer in conferences and journals In her leisure time she likes to attend workshops and conferences and likes to program applications Her Blog links <https://rydhmberi.weebly.com> Her LinkedIn Profile <https://www.linkedin.com/in/rydhm-beri-47a721101>

Core MySQL Leon Atkinson, 2002 This book introduces the reader to the MySQL Open Source database system and focuses on programming in the SQL language that is at the core of MySQL

Core Servlets and JavaServer Pages Marty Hall, 2000 This book is a comprehensive guide for every experienced developer wanting to master the new versions of these powerful tools

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Servlets and JavaServer Pages provides everything users need to leverage the latest J2EE servlet 2.2 and JSP 1.1 standards
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