



## Python Essentials (The Complete beginners Guide)

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<b>ISBN 13 :</b>	978-93-55386-19-9
<b>ISBN 10 :</b>	93-55386-19-2
<b>E-ISBN 13 :</b>	978-93-55386-19-9
<b>Edition :</b>	First
<b>Pages :</b>	96
<b>Type of book :</b>	Paperback
<b>Year :</b>	2025
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 148.00
<b>Categories :</b>	<a href="#">Sathyabama Series</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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**Python Essentials (The Complete beginners Guide)** Python is the bedrock of modern technology—powering everything from Data Science and Machine Learning to Web Development and System Automation. But where do you start? Python Essentials: The Complete Beginner's Guide is your definitive, practical roadmap. Built specifically for absolute beginners, this book capitalizes on Python's simple, English-like syntax to ensure a swift and successful journey into coding. This guide moves beyond theory, equipping you with the fundamental logic and Object-Oriented Programming (OOP) principles needed for professional work. By the time you finish, you won't just know Python; you'll be able to build, debug, and implement real-world solutions. Launch your career or elevate your productivity—the power of Python starts here. **Salient Features:** This guide provides a complete, hands-on path to Python mastery, focusing on modern, practical skills:

- **Core Foundations:** Master the essential building blocks, including variables, expressions, and primary data structures (Lists, Strings, Tuples, Dictionaries).
- **Object-Oriented Programming (OOP):** Gain a clear understanding of OOP principles (Classes, Objects, Inheritance) to write robust, scalable, and reusable code.
- **GUI and Database Development:** Develop practical tools by learning to build Graphical User Interfaces (GUI) with Tkinter and manage data using the SQLite database library.
- **Debugging and Error Handling:** Acquire crucial development skills like effective Exception Handling and code tracing using Python's built-in debugger, pdb.
- **Real-World Project Skills:** Learn to manage projects professionally with topics like File Handling, utilizing Virtual Environments, and performing efficient Code Reviews.
- **Versatile Programming:** Understand Python's support for multiple paradigms, including procedural, functional, and object-oriented styles, preparing you for any job role.

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## Table of Contents

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- Introduction to Python and Basic Constructs
- Object-Oriented Programming Concepts
- Functions, File Handling, and Error Handling
- GUI Programming and Database Handling
- Networking and Hands-on Project



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