



## Learning with Python: How to Think Like a Computer Scientist

By Allen Downey, Chris Meyers, Jeffrey Elkner

Wiley India Pvt. Ltd, 2015. Softcover. Book Condition: New. First edition. The book is designed to introduce the important concepts of Python programming language in detail. The reader will be able to develop and execute the programs in Python. This book will also help the readers to learn about Functions, Recursion, Iterative Statements, Strings, Lists, Tuples, Dictionaries, Files and Exceptions, Classes and Objects, Methods, Inheritance, Linked Lists, Stacks, Queues and Trees.

1. The way of the program The Python programming language  
 What is a program? What is debugging? Formal and natural languages  
 The first program 2. Variables, expressions and statements  
 Values and types Variables Variable names and keywords  
 Statements Evaluating expressions Operators and operands  
 Order of operations Operations on strings  
 Composition Comments 3. Functions Function calls Type conversion  
 Type coercion Math functions Composition Adding new functions  
 Definitions and use Flow of execution  
 Parameters and arguments Variables and parameters are local  
 Stack diagrams Functions with results 4. Conditionals and recursion  
 The modulus operator Boolean expressions Logical operators  
 Conditional execution Alternative execution Chained conditionals  
 Nested conditionals The return statement Recursion  
 Stack diagrams for recursive functions Infinite recursion  
 Keyboard input 5. Fruitful functions Return values  
 Program development Composition Boolean functions More recursion  
 Leap of...

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