

1. Record Nr.	UNINA9910790911003321
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Titolo	Python for finance : build real-life Python applications for quantitative finance and financial engineering // Yuxing Yan ; cover image by Aniket Sawant
Pubbl/distr/stampa	Birmingham, England : , : Packt Publishing, , 2014 ©2014
ISBN	1-78328-438-2
Descrizione fisica	1 online resource (408 p.)
Collana	Community Experience Distilled
Disciplina	005.133
Soggetti	Python (Computer program language) Finance - Mathematical models - Computer programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; Acknowledgments; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Introduction and Installation of Python; Introduction to Python; Installing Python; Different versions of Python; Ways to launch Python; Launching Python with GUI; Launching Python from the Python command line; Launching Python from our own DOS window; Quitting Python; Error messages; Python language is case sensitive; Initializing the variable; Finding the help window; Finding manuals and tutorials; Finding the version of Python; Summary; Exercises Chapter 2: Using Python as an Ordinary Calculator Assigning values to variables; Displaying the value of a variable; Error messages; Can't call a variable without assignment; Choosing meaningful names; Using dir() to find variables and functions; Deleting or unsigning a variable; Basic math operations - addition, subtraction, multiplication, and division; The power function, floor, and remainder; A true power function; Choosing appropriate precision; Finding out more information about a specific built-in function; Listing all built-in functions; Importing the math module The pi, e, log, and exponential functions""import math"" versus ""from math import *""; A few frequently used functions; The print() function; The type() function; Last expression _ (underscore); Combining two

strings; The upper() function; The tuple data type; Summary; Exercises; Chapter 3: Using Python as a Financial Calculator; Writing a Python function without saving it; Default input values for a function; Indentation is critical in Python; Checking the existence of our functions; Defining functions from our Python editor; Activating our function using the import function
Debugging a program from a Python editor Two ways to call our pv_f() function; Generating our own module; Types of comments; The first type of comment; The second type of comment; Finding information about our pv_f() function; The if() function; Annuity estimation; Converting the interest rates; Continuously compounded interest rate; A data type - list; Net present value and the NPV rule; Defining the payback period and the payback period rule; Defining IRR and the IRR rule; Showing certain files in a specific subdirectory; Using Python as a financial calculator
Adding our project directory to the path Summary; Exercises; Chapter 4: 13 Lines of Python to Price a Call Option; Writing a program - the empty shell method; Writing a program - the comment-all-out method; Using and debugging other programs; Summary; Exercises; Chapter 5: Introduction to Modules; What is a module?; Importing a module; Adopting a short name for an imported module; Showing all functions in an imported module; Comparing `import math` and `from math import *`; Deleting an imported module; Importing only a few needed functions; Finding out all built-in modules
Finding out all the available modules

Sommario/riassunto

Python is a free and powerful tool which can be used to build a financial calculator and price options, and can also explain many trading strategies and test various hypotheses. In addition to that, real-world data can be used to run CAPM (Capital Asset Pricing Model), the Fama-French 3-factor model, estimate VaR (Value at Risk), and estimate spread, illiquidity, and liquidity. This book explores the basics of programming in Python. It is a step-by-step tutorial that will teach you, with the help of concise, practical programs, how to run various statistic tests. With this book, you will learn
