Computing for the Sciences Using Python

Part 2

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Computing For The Sciences Using Python Part 1

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Computing For The Sciences Using Python Part 1:

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Programming in Two Semesters Quentin Charatan,Aaron Kans,2022-10-01 This highly accessible textbook teaches programming from first principles In common with many programming courses it uses Python as the introductory programming language before going on to use Java as the vehicle for more advanced programming concepts The first part which teaches Python covers fundamental programming concepts such as data types and control structures and functions It introduces more complex data types such as lists and dictionaries and also deals with file handling It introduces object oriented concepts and ends with a case study bringing together all the topics of the first semester The second part uses Java to teach advanced concepts and centres around object oriented programming teaching key object oriented concepts such as inheritance and polymorphism The semester again ends with an advanced case study bringing together all the topics of the second semester Topics and features Assumes no prior knowledge and makes the transition from Python to Java a smooth process Features numerous exercises and also an illustrative case study for each language Examines procedural and object oriented methodologies as well as design principles Covers such advanced topics as interfaces and lambda expressions exceptions and Collections Includes a chapter on graphics programming in Python using Tkinter Introduces the latest Java technology for graphical interfaces JavaFX Explains design concepts using UML notation Offering a gentle introduction to the

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