Advanced Python

The Python programming language is relatively easy to learn and allows to solve real-world problem with a just a few concepts. But it also offers several advanced features that can help to greatly improve the programming experience. The latest releases of Python 2.x and 3.x add interesting features that can be used passively without deeper understanding about how they work. The course teaches how these features work and provides details about meta-programming and other advanced techniques.

Who should attend?

This course has been designed for medium/higher level of Python programmers who would like to dive deeper into the language. Alternatively, participants can attend the course Python for Programmers to be able to take full advantage of this advanced course.
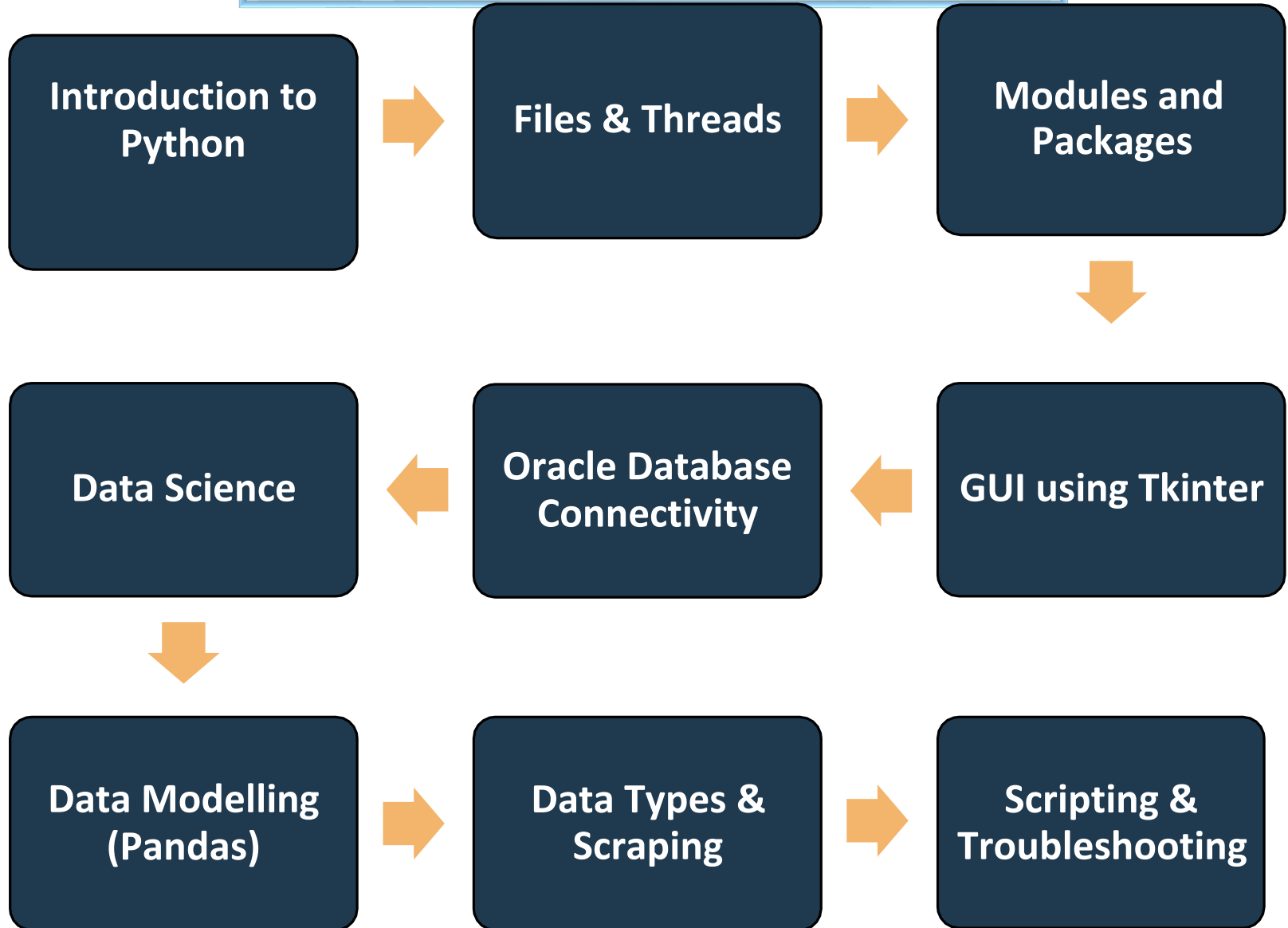
Benefits

The Ability to design an Algorithm

The Ability to solve hard Problems / Puzzles

The Ability to make a program / script more efficient

The Ability to physically code faster

The Ability to test and find problems in large code projects

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Course Outline

Introduction to Python → **Files & Threads** → **Modules and Packages**

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Data Science ← **Oracle Database Connectivity** ← **GUI using Tkinter**

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Data Modelling (Pandas) → **Data Types & Scraping** → **Scripting & Troubleshooting**

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Course Outline

Loops & Matplotlib → **Dictionaries & Pandas** → **Context Managers**

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Descriptors ← **Patterns** ← **Conventions & Decorators**

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Python for Automation → **Hands on Practice**

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Prerequisites for the EXAM

- Should have completed Python Basics

Exam Details

- Number of Questions – 40 Multiple Choice Questions, carrying 1 mark each
- Duration – 1 hour
- Open book exam – No
- Use of electronic devices permitted during the exam – No
- Pass mark – 25 out of 40

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