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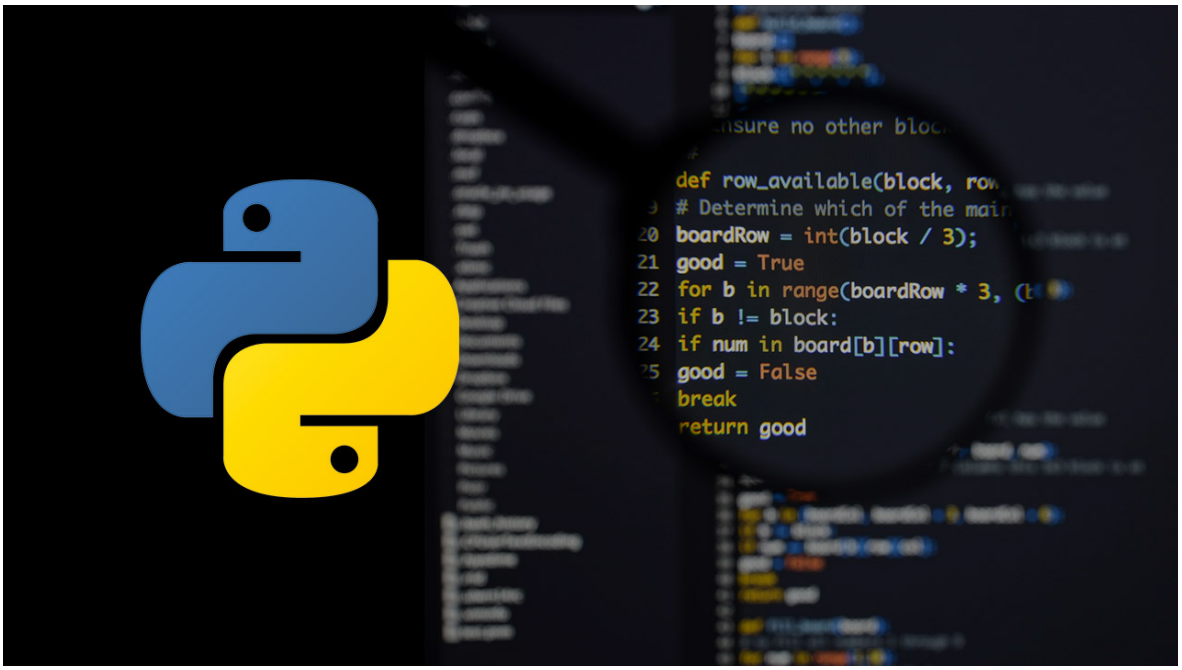
Learning Style: On Demand

Technology: Microsoft

Difficulty: Beginner

Course Duration: 20 Hours

Introduction to Python: Absolute Beginner



About this course:

Brand new to text-based programming? Check out this hands-on course for an in-depth look at the details of Python layers and concepts. Get ample practice drills and projects, using Jupyter Notebooks on Azure, which require only a browser and an Internet connection. Learn best practices and begin coding almost immediately.

After you explore data types and variables, take a look at strings, input, testing, and formatting. From there, learn about arguments and parameters, along with conditionals and nested conditionals. By the end of the course, you'll be able to create programs that prompt users for input and use conditional (True/False) logic and Python methods to manipulate numbers and text to provide responses to the users, in addition to requesting further input. Plus, learn basic troubleshooting for your code. Sign up, and get started coding right away!

Ready for next steps? Take the Introduction to Python: Fundamentals course.

Course Objective:

- Using Python in Jupyter Notebooks
- Gathering input and manipulating input/output
- Building reusable Functions with parameters and return values
- Decisions and repetition using conditional statements and loops

Audience:

- Data Analyst
- Programmers

Prerequisite:

- There are no prerequisite required for this course

Course Outline:

Module 1 Basics

- Starting Jupyter Notebooks
- Types & Variables
- Type Function
- Addition & Errors
- ASCII Art
- Input
- Print Formatting
- Quote display & Boolean
- String Formatting &" in" keyword
- Basics Practice
- end of Mod coding assignment

Module 2 Functions

- Simple Functions
- function return & multi-parameters
- Sequence
- Function Practice
- end of Mod coding assignment

Module 3 Conditionals

- Conditionals: Boolean Strings
- Conditionals: Comparison Operators
- String Comparison
- Conditions elif and casting
- Math Operators

- Conditionals Practice
- end of Mod coding assignment

Module 4 Nesting and Loops

- Nested Conditionals
- Escape Sequences
- 'while' loop and incrementing
- 'while' Boolean loops
- Nesting and Loop practice
- end of Mod coding assignment

Module 5 Final Evaluation

- Final Coding Assignment

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