PYTHON

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PYTHON PROGRAMMING

FUNDAMENTALS OF PYTHON
• Introduction to Python • Running Python Programs • Writing Python Code
WORKING WITH DATA
• Data Types and Variables • Using Numeric Variables • Using String Variables
INPUT AND OUTPUT
• Printing with Parameters • Getting Input from a User • String Formatting
MAKING DECISIONS
• Logical Expressions • The "if" Statement • Logical Operators • More Complex Expressions
FINDING AND FIXING PROBLEMS   CHAT-BOT
• Types of Errors • Troubleshooting Tools • Using the Python Debugger
LISTS AND LOOPS
• Lists and Tuples • List Functions • "For" Loops • "While" Loops
NUMERIC AND DATA
• Dates and Times • Advanced Data and Time Management

PYTHON

- Random Numbers
- The Math Library

WORKING WITH STRINGS

- Character Data
- String Functions
- Input Validation with "try / except"

FUNCTIONS

- Writing and Calling Functions
- Function Inputs and Outputs
- Local and Global Scope

PYTHON CLASSES

- Thinking about Objects
- Class Variables and Methods
- Managing Class Files

CLASS INSTANCES

- Creating Objects with Instance Data
- Instance Methods
- Managing Objects

PROJECT

PYTHON

SUPPLEMENTAL CHAPTER 1 : INSTALLING PYTHON ON YOUR COMPUTER
- Installing Python - Managing Projects - Using the Python IDE
SUPPLEMENTAL CHAPTER 2 : COMPUTING ETHICS AND SECURITY
- Ethical Use of Computers - Intellectual Property - Digital Security - Social Engineering
SUPPLEMENTAL CHAPTER 3 : ENRICHMENT
- Computer Number Systems - Encoding Data - Algorithms - Software Development Careers - Student Organizations

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