

AIDM

Basic Python Course Syllabus



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Python Course

Python Training Course Topics:

An Overview of Python
Running Python Scripts
Flow Control
Sequence Data
Defining Functions
Working with Files

1. An Overview of Python

What is Python?

- History of Python
- Python Features

2. Python Environment Setup

- Local Environment Setup
- Getting Python
- Running Python
- Setting up PATH
- Setting Path at Unix/Linux
- Setting Path at Windows
- Python Environment Variables

3. Python Basic Syntax

- First Python Program
- Python Identifiers
- Reserved Words
- Lines and Indentation
- Multi-Line Statements
- Parsing Command-Line Arguments

3. Python Basic Syntax

- Quotation in Python
- Comments in Python
- Using Blank Lines
- Waiting for the User
- Multiple Statements on a Single Line
- Multiple Statement Groups as Suites
- Command Line Arguments



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4. Python Variable Types

- Assigning Values to Variables
- Multiple Assignment
- Standard Data Type
- Python Numbers
- Python String
- Python Lists
- Python Tuples
- Python Dictionary
- Data Type Conversion

5. Python Basic Operators

- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators
- Python Logical Operators
- Python Membership Operators
- Python Identity Operators
- Python Operators Precedence

6. Python Decision Making

- IF Statement
- IF...ELIF...ELSE Statements
- Nested IF Statements
- Single Statement Suites

7. Python Loops

- while Loop Statements
- for Loop Statements
- Nested loops
- Loop Control Statements
- Continue Statement
- pass Statement
- Iterator and Generator
- break statement



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8. Python Numbers

- Mathematical Functions
- Number abs() Method
- Number ceil() Method
- Number floor() Method
- Number fabs() Method
- Number log() Method
- Number log10() Method
- Number max() Method
- Number modf() Method
- Number round() Method
- Number sqrt() Method
- Random Number Functions
- Number choice() Method
- Number randrange() Method
- Number random() Method
- Number seed() Method
- Number shuffle() Method
- Number uniform() Method
- Trigonometric Functions
- Number acos() Method
- Number asin() Method
- Number atan() Method
- Number atan2() Method
- Number cos() Method
- Number hypot() Method
- Number sin() Method
- Number tan() Method
- Number degrees() Method
- Number radians() Method
- Mathematical Constants



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9. Python Strings

- Accessing Values in Strings
- Updating Strings
- Escape Characters
- String Special Operators
- String Formatting Operator
- Triple Quotes
- Unicode String
- String capitalize() Method
- String center() Method
- String count() Method
- String decode() Method
- String encode() Method
- String endswith() Method
- String expandtabs() Method
- String find() Method
- String index() Method
- String isalnum() Method
- String isalpha() Method
- String isdigit() Method
- String islower() Method
- String isnumeric() Method
- String isspace() Method
- String istitle() Method
- String join() Method
- String len() Method
- String ljust() Method
- String lower() Method
- String lstrip() Method
- String maketrans() Method
- String max() Method
- String min() Method
- String replace() Method
- String rfind() Method
- String rindex() Method



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9. Python Strings

- String rjust() Method
- String.rstrip() Method
- String.split() Method
- String.splitlines() Method
- String.startswith() Method
- String.strip() Method
- String.swapcase() Method
- String.title() Method
- String.translate() Method
- String.upper() Method
- String.zfill() Method
- String.isdecimal() Method

10. Python Lists

- Python Lists
- Accessing Values in Lists
- Updating Lists
- Delete List Elements
- Basic List Operation
- Indexing, Slicing and Matrixes
- Built-in List Functions & Methods
- List len() Method
- List max() Method
- List min() Method
- List list() Method
- List.append() Method
- List.count() Method
- List.extend() Method
- List.index() Method
- List.insert() Method
- List.pop() Method
- List.remove() Method
- List.reverse() Method
- List.sort() Method



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11. Python Tuple

- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters
- Built-in Tuple Functions
- Tuple len() Method
- Tuple max() Method
- Tuple min() Method
- Tuple tuple() Method

12. Python Dictionary

- Accessing Values in Dictionary
- Updating Dictionary
- Delete Dictionary Elements
- Properties of Dictionary Keys
- Built-in Dictionary Functions & Methods
- Dictionary len() Method
- Dictionary str() Method
- Dictionary type() Method
- Dictionary clear() Method
- Dictionary copy() Method
- Dictionary fromkeys() Method
- Dictionary get() Method
- Dictionary items() Method
- Dictionary keys() Method
- Dictionary setdefault() Method
- Dictionary update() Method
- Dictionary values() Method



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13. Python Date & Time

- What is Time
- What is TimeTuple?
- Getting current time
- Getting formatted time
- Getting calendar for a month
- The time Module
- Time altzone() Method
- Time asctime() Method
- Time clock() Method
- Time ctime() Method
- Time gmtime() Method
- Time localtime() Method
- Time mktime() Method
- Time sleep() Method
- Time strftime() Method
- Time strptime() Method
- Time time() Method
- Time tzset() Method
- The calendar Module
- Other Modules & Functions

14. Python Functions

- Defining a Function
- Calling a Function
- Pass by Reference vs Value
- Function Arguments
- Required Argument
- Keyword Arguments
- Default Arguments
- Variable-length Arguments
- The Anonymous Functions
- The return Statement
- Global vs. Local variables



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15. Python Modules

- The import Statement
- The from import Statement
- The from...import * Statement:
- Executing Modules as Scripts
- Locating Modules
- The Python Path Variable
- Namespaces and Scoping
- The dir() Function
- The globals() and locals() Functions
- The reload() Function
- Packages in Python

16. Python Files I/O

- Printing to the Screen
- Reading Keyboard Input
- The input Function
- Opening and Closing Files
- The open Function
- The file Object Attributes
- The close() Method
- Reading and Writing Files
- The write() Method
- The read() Method
- File Positions
- Renaming and Deleting Files
- The rename() Method
- The remove() Method
- Directories in Python
- The mkdir() Method
- The chdir() Method
- The getcwd() Method



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16. Python Files I/O

- The rmdir() Method
- File & Directory Related Methods
- File Methods
- File close() Method
- File flush() Method
- File fileno() Method
- File isatty() Method
- File next() Method
- File read() Method
- File readline() Method
- File readlines() Method
- File seek() Method
- File tell() Method
- File truncate() Method
- File write() Method
- File writelines() Method
- OS File/Directory Methods
- Os.access() Method
- Os.chdir() Method
- Os.chflags() Method
- Os.chmod() Method
- Os.chown() Method
- Os.chroot() Method
- Python os.close() Method
- Os.closerange() Method
- Os.dup2() Method
- Os.dup() Method
- Os.fchdir() Metho
- Os.fchmod() Method
- Os.fchown() Method
- Os.fdatasync() Method
- Os.fdopen() Method
- Os.fpathconf() Method
- Os.fstat() Method
- Os.fstatvfs() Method
- Os.fsync() Method



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16. Python Files I/O

- Os.ftruncate() Method
- Os.getcwd() Method
- Os.getcwdu() Method
- Os.isatty() Method
- Os.lchflags() Method
- Os.lchown() Method
- Os.link() Method
- Os.listdir() Method
- Os.lseek() Method
- Os.lstat() Method
- Os.major() Method
- Os.makedev() Method
- Os.makedirs() Method
- Os.minor() Method
- Os.mkdir() Metho
- Os.mkfifo() Method
- Os.open() Method
- Os.openpty() Method
- Os.pathconf() Method
- Os.pipe() Method
- Os.popen() Method
- Os.read() Method
- Os.readlink() Method
- Os.chroot() Method
- Os.remove() Metho
- Os.removedirs() Method
- Os.rename() Method
- Os.renames() Method
- Os.renames() Method
- Os.rmdir() Method
- Os.stat() Method
- Os.stat_float_times() Method
- Os.statvfs() Method
- Os.symlink() Method
- Os.tcgetpgrp() Method
- Os.tcsetpgrp() Method



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16. Python Files I/O

- Os.tempnam() Method
- Os.tmpfile() Method
- Os.tmpnam() Method
- Os.ttyname() Method
- Os.unlink() Method
- Os.utime() Method
- Os.walk() Method
- Os.write() Method

17. Python Exceptions Handling

- Standard Exceptions
- Assertions in Python
- What is Exception?
- Handling an Exception
- The except Clause with No Exceptions
- The except Clause with Multiple Exceptions
- The try-finally Clause
- Argument of an Exception
- Raising an Exception
- User-Defined Exceptions



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