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2. *Using the Python Interpreter*
  - a. Invoking the Interpreter
    - i. Interactive Mode
  - b. The Interpreter and Its Environment
    - i. Source Code Encoding
3. *An Informal Introduction to Python*
  - a. Using Python as a Calculator
    - i. Numbers
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    - iv. Lists
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4. *More Control Flow Tools*
  - a. If Statements
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  - d. Break and continue Statements, and else Clauses on Loops
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  - g. More on Conditions
  - h. Comparing Sequences and Other Types

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## 6. Modules

- a. More on Modules
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  - ii. The Module Search Path
  - iii. "Compiled" Python files
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- c. The **dir()** Function
- d. Packages
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## 7. Input and Output

- e. Fancier Output Formatting
  - i. Old string formatting
- f. Reading and Writing Files
  - i. Methods of File Objects
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## 8. Errors and Exceptions

- a. Syntax Errors
- b. Exceptions
- c. Handling Exceptions
- d. Raising Exceptions
- e. User-defined Exceptions
- f. Defining Clean-up Actions
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## 9. Classes

- a. A Word About Names and Objects
- b. Python Scopes and Namespaces
- c. A First Look at Classes
  - i. Class Definition Syntax
  - ii. Class Objects
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  - v. Class and Instance Variables
- d. Inheritance
  - i. Multiple Inheritance
- e. Private Variables and Class-local References
- f. Exceptions Are Classes Too
- g. Iterators
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## 10. Regular Expression

- a. Pattern Matching
- b. Understanding Meta characters
- c. re functions and flags