

Creating and Modifying Text, part 1

Lecture 4

Strings: Making Human Text in a Computer

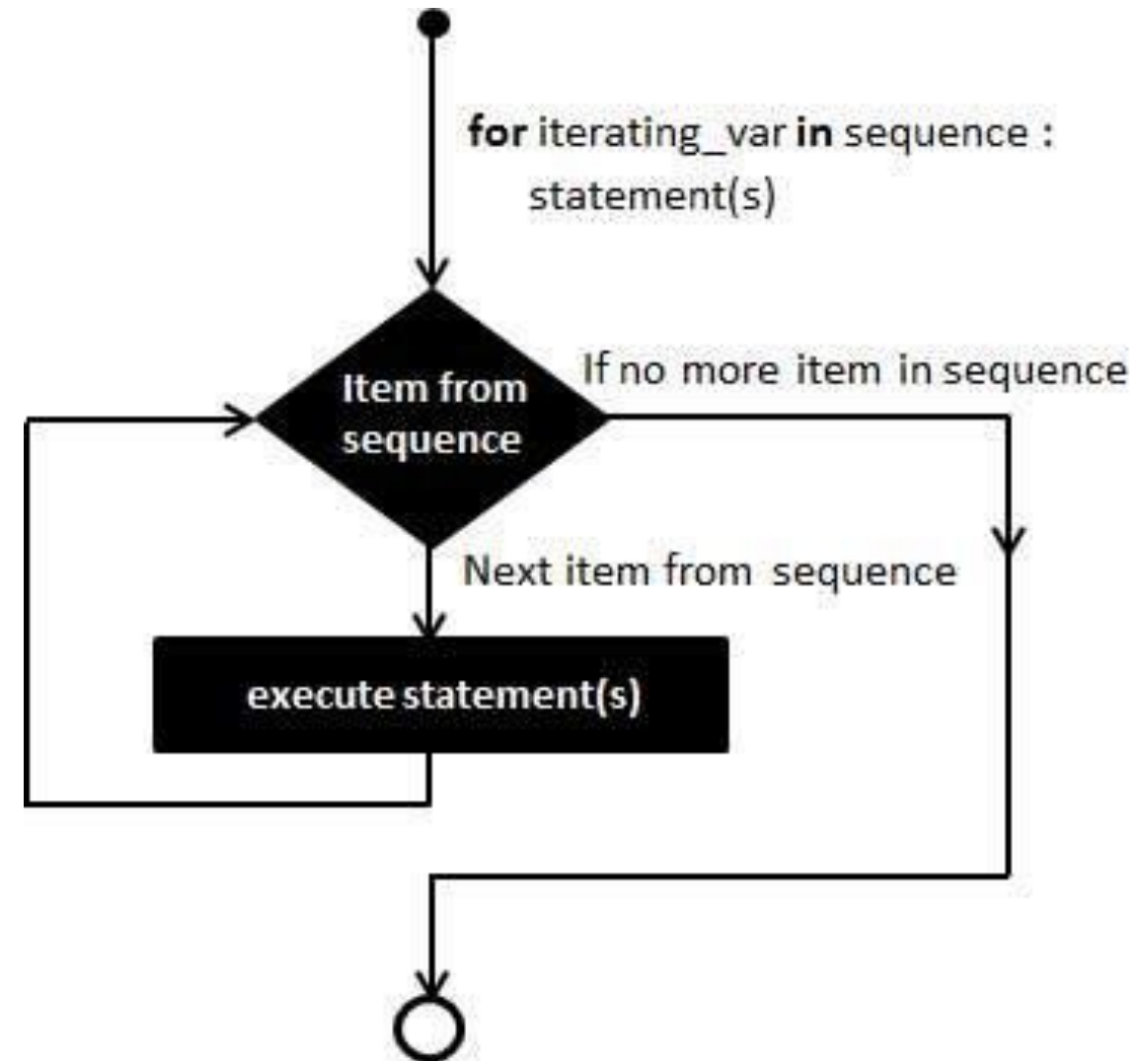
- Programming concept: representations of words (*characters*) in computers
- Character: "H"
 - Unicode: U+0042
 - ASCII: 72
- Literal string: "Hello" ...five *mailboxes* with five characters
- Quotes: `" "` (double quotes) and `' '` (single quotes)
 - `"It's okay to do this."`
 - `"However, "This is not okay," he said."`
 - `"But this is \"another way\" around this problem."`
- Type casting
 - Notice the difference: `"4"+"5"` vs. `4+5`
 - `str()` and `int()` and `float()`

Making Strings from Strings: Telling Stories

- programming concept: *functions* (reusable blocks of code)
- Concatenation symbol: +
- Functions with parameters
 - Remember: parameters vs. arguments
- Lab assignment 2: Mad Libs

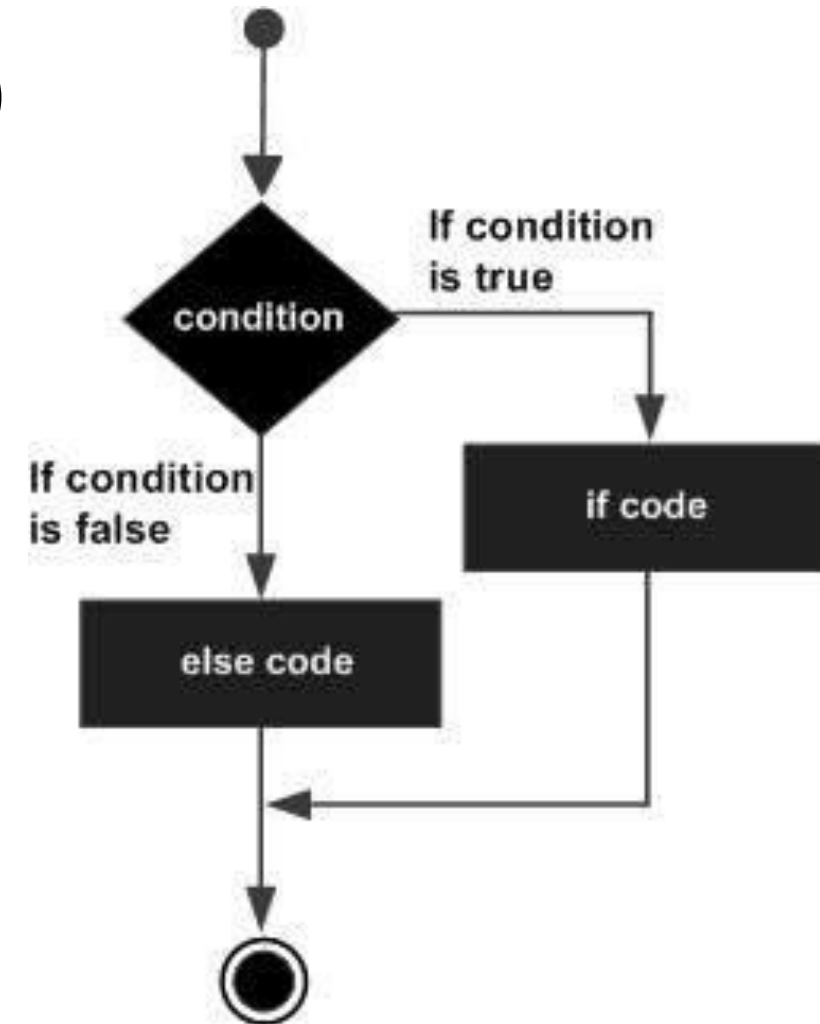
Taking Strings Apart with FOR

- Programming concept: *loop*
- **For** [each one of these] **in** [here]
- Don't forget:
 - colon (:)
 - indentation (block)



Testing the Pieces

- Programming concept: *IF* statements (decisions)
- **If** (some condition)...
- **If not** (some condition)...
- Don't forget:
 - colon (:)
 - indentation (block)
- Methods
 - Object-oriented programming
 - "dot" notation



Taking Strings Apart, and Putting Strings Together

- Remember: = (assignment operator) does not mean equals
- The "pile" concept
 - Initialize an empty variable
 - Then use the variable in a loop
- Lab assignment 3: Palindrome (homework)