Functions & Conditionals

CSE 114 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING

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Announcements

Please use **Coursewire** for all technical questions!

1. Allows any TA, other classmates, or myself answer questions

2. Allows other classmates to learn as well

Do not send email as I will not have time to respond to most. For this class, use Coursewire for technical questions [Also, this way the information in the response is available to the entire class]. Do not post your assignment code on Coursewire. For that type of technical question, post a 'private' message and only include instructors and TAs.

You can use email for personal/logistical questions related only to yourself. Use antonino.mione@sunykorea.ac.kr [I check this email more frequently than stonybrook.edu]

Reading assignment (in Downey's Think Java textbook):

◦ Functions / Methods (Chapter 4)
◦ Introduction to Conditionals (Chapter 5.1-5.4)

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Methods/Functions

In *programming*, a **function** is a name given to a set of statements that perform a well-defined task
◦ A function inside a class is called a method
◦ Java programs are made up of a class with methods

Program structure expanded
◦ See program_structure_2.txt

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Methods/Functions

Important to understand
◦ Why creating more methods is a good idea
◦ How to create a method
◦ How to use a method that you created

Let's start with an idea that we all are familiar with
◦ See idea.txt

Using Java now – let's start with a simplest form of a method and start improving it incrementally with the following examples in order:
◦ See Func1.java
        . . . .
◦ See Func6.java

See how two methods communicate with each other
◦ See communication.txt

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Conditionals

Java (like all languages) allows us to check a condition and execute different steps depending on the outcome
◦ See conditionals.txt for a more formal discussion of the concept
◦ One way to create conditional statements in Java is with `if`, `else if`, and `else` statements

Conditionals give whole new possibilities for writing code

See Cond0.java

Different kinds of conditionals with methods

Conditionals in multiple methods
◦ See Cond1.java

Conditionals with multiple branches
◦ See Cond2.java

Conditionals with nested if...else's
◦ See Cond3.java

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