

CS2110 Announcements

Assignment A1 on course Piazza Thursday morning.

Piazza: Check pinned Assignment A1 note often! Take course S/U?

OK with us. Check with your advisor/major. To get an S, you need to do at least C– work. Do D+ work or less, you get a U.

Please don't email us about prelim conflicts! We'll tell you at the appropriate time how we handle them.

If you are new to the course and want to submit a quiz or assignment that is past due, talk to or email you TA and ask for an extension.

Assignment A1

Write a class to maintain information about PhDs ---e.g. their advisor(s) and date of PhD. Pay attention today, you will do exactly what I do in creating and testing a class!

Objectives in brief:

Get used to Eclipse and writing a simple Java class

 Learn conventions for Javadoc specs, formatting code (e.g. indentation), class invariants, method preconditions

Learn about and use JUnit testing

Important: READ CAREFULLY, including Step 8, which reviews what the assignment is graded on.

Groups. You can do A1 with 1 other person. FORM YOUR GROUP EARLY! Use Piazza Note @5 to search for partner!

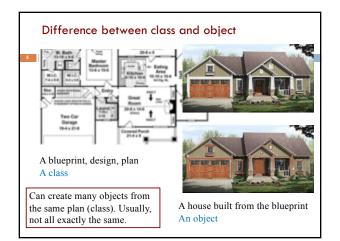
Homework (not to be handed in)

1. Course website will contain classes Time and TimeTester. The body of the one-parameter constructor is not written. Write it. The one-parameter constructor is not tested in TimeTester. Write a procedure to test it.

2. Visit course website, click on Resources and then on Code Style Guidelines. Study

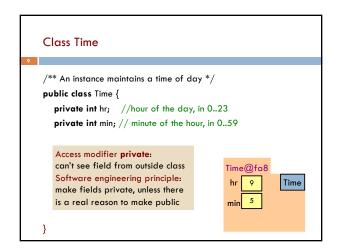
- 1. Naming conventions
- 3.3 Class invariant
- 4. Code organization
- 4.1 Placement of field declarations
- 5. Public/private access modifiers

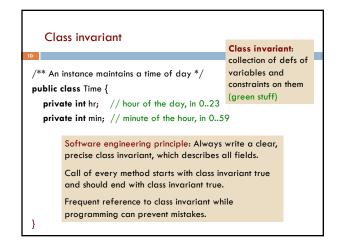
3. Look at slides for next lecture; bring them to next lecture

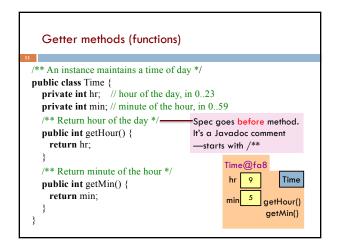


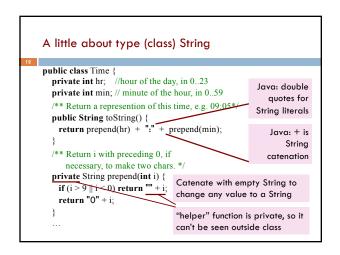
Overview An object can contain variables as well as methods. Variable in an object is called a field. Declare fields in the class definition. Generally, make fields private so they can't be seen from outside the class. May add getter methods (functions) and setter methods (procedures) to allow access to some or all fields. Use a new kind of method, the constructor, to initialize fields of a new object during evaluation of a new-expression. Create a JUnit Testing Class to save a suite of test cases.

References in JavaHyperText entries class Time Object contains the time of day in hours and minutes. Methods in object refer to fields in object. Look at these JavaHyperText entries: Could have an array of such objects to list the times at which Declaration of fields: field classes start at Cornell. Getter/setter methods: getter setter With variables t1 and t2 below, Constructors: constructor t1.getHour() is 8 Class String: toString t2.getHour() is 9 Time@150 Time@fa8 JUnit Testing Class: Junit t2.toString() is "09:05" 9 Time Overloading method names: overload 8 Time hr Overriding method names: override t1 Time@150 getHour() getHour() 0 5 min getMin() getMin() t2 Time@fa8 toString() toString()









Concatenate or catenate?

I never concatenate strings;

- I just catenate those little things.
- Of syllables few,
- I'm a man through and through.
- Shorter words? My heart joyfully sings!

