LECTURE STRUCTURE

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ASSUMPTION

You have imported the JavaTeaching Git project into Eclipse

Importing GitProject (JavaTeaching)	PowerPoint PDF	

TOPIC DESCRIPTION

For each lecture unit you will be given the name of a Java package and a Sakai Quiz

E.g. lectures.scanning and Scanning

The topic should correspond to an item in the course page table.

Scanning	PowerPoint PDF YouTube Mix	Docx PDF Drive	Scanning Visualization	Number Scanner Checks File	lectures.scanning Package

You may want to look at an appropriate resource before, during, or after the lecture to deepen your understanding and answer questions
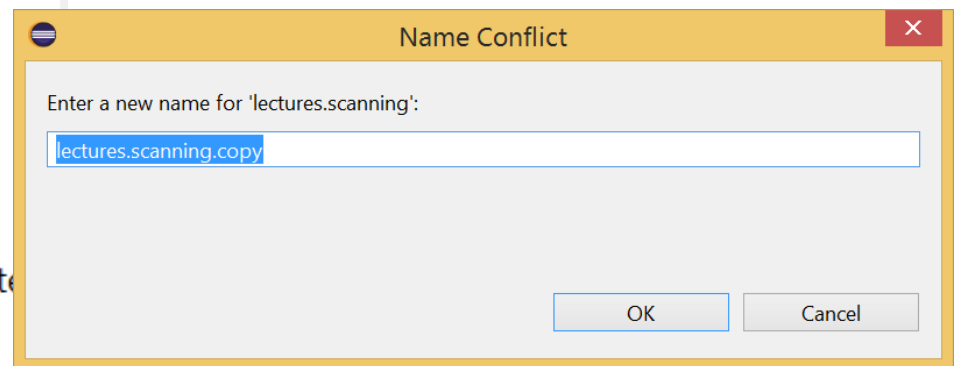
COPY JAVA PROJECT

Make a copy of the Java package so you do not change the original package

You can select the package, execute control-c and control-v, and then enter the name of the new package or accept the suggested name

▲ 🖼 JavaTeaching [JavaTeaching master]
   ▲ 📁 src
      › 📂 lectures.animation.loops
      › 📂 lectures.animation.mvc
      › 📂 lectures.animation.threads_commands
      › 📂 lectures.animation.threads.synchronized_metho
      › 📂 lectures.animation.threads.ui
      › 📂 lectures.animation.threads.wait_notify
      › 📂 lectures.arrays
      › 📂 lectures.arrays.collections_implementation

      › 📂 lectures.reflection_action_objects
    ▲ 📂 lectures.scanning
        › 📄 AConsoleReadingUpperCasePrinter.java
        › 📄 AModularConsoleReadingUpperCasePrint
        › 📄 AModularUpperCasePrinter.java
        › 📄 AnUpperCasePrinter.java

Name Conflict   ✕

Enter a new name for 'lectures.scanning':

lectures.scanning.copy

OK   Cancel

PACKAGE-INFO

lectures.scanning
- AConsoleReadingUpperCasePrinter.java
- AModularConsoleReadingUpperCasePrinter.j
- AModularUpperCasePrinter.java
- AnUpperCasePrinter.java
- Console.java
- package-info.java
- StringManipulation.java

The package should include a file called package-info.java. Select it to view it in an editor

QUESTION INFO

```
 1  /**
 2   * PRAXIS I
 3   * Code asso                                                nc.edu/~dewan/comp401/current/
 4   * The word                                                e and motivation for this unit in
 5   * great dep
 6   *
 7   * Visit the
 8   * {@link le                                                scanning.AModularConsoleRead
 9   * Click on                                                r CMD F3, depending on your
10   * to automa
11   *
12   * After pe                                                here.
13   * Once you
14   *
15   * QUESTION INFO
16   *
17   * Packages
18   * How is a package stored in the file system?
19   * T/F For each class, a folder is created.
20   * T/F For each class, a file is created.
21   *
22   * How is a class stored in the file system?
23   * T/F For each package, a folder is created.
24   * T/F For each package, a file is created.
25   *
26   * T/F The full name of a class contains its package and class name.
27   * T/F The short name of a class is its package name.
28   *
29   * T/F It makes sense for a class to import only those classes that are not in its package.
```

Question-info is the set of questions you need to answer on Sakai for this topic

Look at question info and see which questions you can can answer without doing the praxis and what you need to pay attention to while doing the praxis

The praxis will help you answer both the Sakai questions and participate in class discussion.

PRAXIS-INFO

```
1  /**
2   * PRAXIS INFO
3   * Code associated with the scanning teaching unit in: http://www.cs.unc.edu/~dewan/comp401/current/
4   * The word and PPT documents created for the unit describe the purpose and motivation for this unit in
5   * great depth.
6   *
7   * Visit the following classes for this praxis in this order:
8   * {@link lectures.scanning.AConsoleReadingUpperCasePrinter} {@link lectures.scanning.AModularConsoleRead
9   * Click on the name of the referenced class name and Press F3 (maybe Fn F3 or CMD F3, depending on your
10  * to automatically navigate to it.
11  *
12  * After performing the praxis, answer the following questions in draft form here.
13  * Once you are sure of your answers, take the Scanning Sakai quiz.
14  *
15  * QUESTION
16  *
17  * Packages
18  * How is a
19  * T/F For e
20  * T/F For e
21  *
22  * How is a c
23  * T/F For ea
24  * T/F For ea
25  *
26  * T/F The fu
27  * T/F The sho
28  *
29  * T/F It makes sense for a class to import only those classes that are not in its package.
```

Praxis-Info is a list of classes in the package to be visited in that order to do the praxis.

Many classes in the package are irrelevant for your purposes.

```
  2 /**
  3  * RUNNING A PROGRAM
  4  * This is an example of a Java program called a class in Java.
  5  * There are many ways to execute a class,
  6  * If you are editing the class and your insertion pont is in it,
  7  * Right click->Debug As->Java Application is one way.
  8  * Use it or some other way you know to run this program.
  9  *
 10  * PACKAGES
 11  * A class (named AConsoleReadingUpperCasePrinter below)  may be contained in a named hierarchical packa
 12  * This class is in a package called scanning which is a sub-package of lectures.
 13  * In fact, for each package, the OS creates a folder and for each class in a package it creates a file
 14  * folder of its package.
 15  * This
 16  * conta
 17  * conta        Expand all comments and methods in the class in case
 18  * A pac                          some are collapsed.
 19  *
 20  * FULL
 21  * The p                                                                        long name.
 22  * The full name of this class is lectures.scanning.AConsoleReadingUpperCasePrinter
 23  *
 24  */
 25 package
 26    /**        Read the comments top to bottom and follow
 27     *                              instructions
 28     *
 29     *
 30     *                                                             he full name
 31     * of class C2 or import C2.
 32     *
 33     * Below, we are importing an external class not in the package of this class.
 34     * W
 35     */
 36 import j
 37    /**            Work in a large a group as possible
 38     * C
 39     * E
 40     * A
 41     * A class name should be camel case starting with an upper case letter.
 42     * That is, the first word in the name should be a lowercase letter
 43     * and  each subsequent word should start with an uppercase letter.
 44     */
```

DRAFT QUIZ ANSWERS

```
 1  /**
 2   * PRAXIS INFO
 3   * Code associated with the scanning teaching unit in: http://www.cs.unc.edu/~dewan/comp401/current/
 4   * The word and PPT documents created for the unit describe the purpose and motivation for this unit in
 5   * great depth.
 6   *
 7   * Visit the following classes for this praxis in this order:
 8   * {@link le                                                      scanning.AModularConsoleRead
 9   * Click on                                                       r CMD F3, depending on your
10   * to autom
11   *
12   * After pe                                                       here.
13   * Once you
14   *
15   * QUESTION INFO
16   *
17   * Packages
18   * How is a package stored in the file system?
19   * T/F For each class, a folder is created.
20   * T/F For each class, a file is created.
21   *
22   * How is a class stored in the file system?
23   * T/F For ea
24   * T/F For ea
25   *
26   * T/F The fu
27   * T/F The sh
28   *
29   * T/F It makes sense for a class to import only those classes that are not in its package.
```

Go back to question info and draft your answers in as large a group as possible

Do not reset project (as advised in the git ppt) if you edit this file

TAKE SAKAI QUIZ

COMP401.002.FA16: Tests & Quizzes

ⓘ Assessment Preview - This is an example student view of this assessment [done]

Begin Assessment

"Scanning" for **COMP401.002.FA16**

There is no due date for this assessment.

There is no time limit for this assessment.

You can submit this assessment 1 time(s).

[Begin Assessment] [Cancel]

CLASS DISCUSSION

When in doubt answer!

The goal is to incrementally build the correct answer in class.

Do not worry about giving the wrong answer.

CONSTRAINTS

You will be given at least a week to finish the Saka quiz to account for illness and other problems

The more work you get done in class, the more likely it is that you will benefit from and contribute to in-class discussion

Will try to get the material ready before class so you can be better prepared

You can discuss the answers in person with others but not post them in any electronic forum.