CS 2112 Lab: Javadoc
Javadoc Overview

- Javadoc is a tool for creating html documentation
- The documentation is generated from comments
- It produces actual html web pages
- Helps keep documentation consistent with the code
Doc Comments

- Doc comments start with /** and end with */.
- The /** and */ should be on their own lines.
- Additional lines need to start with a *.
- Comments can have html tags.

```*/
* This is a javadoc comment
*/
```
Javadoc Tags

- Use tags to help Javadoc parse your comments.
- Tags start with a @ and are case sensitive.
- It must be at the beginning of the line

```java
/**
 * Prints the kth element of the list
 *
 * @author Alexander Lee
 * @param list The list who's element is to be printed
 * @param k The index of the item to be printed
 */

public void printK(List list, int k) {
}
```
@link package.class#member label
- This tag inserts a link that points to the documentation of the specified class
- label represents the text that shows up
- The curly brackets indicate that it is an inline tag
- So it can be placed anywhere in the comments, doesn’t have to be in the beginning.

```java
/**
 * Get the names of an object
 * @deprecated This function should not be used
 * Use {@link #getFirstName()} and
 * {@link al91.Person#getLastName()} instead.
 */
```
Important Tags

Some important tags

- @author: describes the author
- @param: describes a specific parameter
- @return: describes the return value
- @throws: describes exceptions it throws
- @deprecated: describes the reason
- @see package.class#member
Javadoc and Eclipse

- To generate the doc, go to Project and Generate Javadoc
- Eclipse automatically generates Javadoc comments if the method signature is already written.
- Can configure Eclipse to complain about missing Javadoc by going to preferences, compiler, javadoc
Design a GPS system that finds the shortest route from the current location to the destination.

- There are three ways of transportation, by car, by public transportation and by walking.
- The GPS system should be able to return a route given any current location, and destination
- Can be easily updated to add new roads, or to avoid roads