

Array of Objects

CSE 114 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING

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Announcements

Topics:

- Object reference
- Array of objects
- The Object class (notion of inheritance)
- Printed representation of objects (toString)

Reading: follow the lecture notes closely and use textbook as a reference

- Think Java: Chapter 9, 10, 11, and 12

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What is an object reference?

See [object_reference.txt](#)

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Array of objects

See [array_of_objects.txt](#)

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Printed representation of an object

When you run `UseStudent.java`, each student object is printed in some obscure form.

Where is it being printed in that example?

- See `printArray` in `ArrayTools.java`
- There is one that takes an array of Students as a parameter.

What is being printed when you print a student object?

- To answer this question, we need to understand the class named `Object` in Java.
- See next slide.

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The Object class

See `java.lang.Object` on the Java Documentation website

In it you will find 11 methods, but we will only care about two of those in CSE 114 and they are:

- `toString`
- `equals`

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String representation of an object

We just saw `Object` in the Java Documentation website

Let's use `toString` of `Object`

See `Loan.java` and `UseLoan.java`

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Parallel arrays

If we did not have the notion of an object, parallel arrays are what we would be using.

It is not a good way to do it, but I will briefly mention it to illustrate the point in class.

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