Philip Pesic

Week 13

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Week 13 Lecture Notes

Function Overriding

Function overriding is the act of redefining a function in a subclass to override the original

function. This is the first step to polymorphism.

Ex:

(In base class) void doStuff() {System.out.println("Hello")};

(In sub class) void doStuff() {System.out.println("Hi")};

//Now, calling the function from each class would yield different results

Polymorphism

Polymorphism is the act of creating many subclasses from a superclass and then overriding

functions. This is, in a way, an extension of inheritance by extending the possibilities with

inheriting methods.

Ex:

(Base class "animal") void sound() {System.out.println("Sound")};

(Sub class "dog") void sound() {System.out.println("bark")};

(Sub class "cat") void sound() {System.out.println("meow")};

animal.sound(); //Sound

dog.sound(); //bark

cat.sound(); //meow