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Week 13

April 16 2023

Week 13 Q6

1) Look at the code that has the `polyAnimalSound()` functions.

How is the creation of the `polyAnimalSound()` function method useful, in terms of writing less code !

Use of a function that takes an object as a parameter is useful in this case because it allows us to save time and reuse code by passing different arguments into the same function to get the value we want instead of calling a function from each object individually

2) What is polymorphism ?

Polymorphism is the redefinition or overriding of a base method in subclasses. Essentially, it's the redefinition of a function in a subclass to override the original.

3) Can you create more than one derived/superclass from one base/subclass ?

You can create many derived classes from a base class, which is helpful in code organization and code reuse.

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4) What is the syntax for polymorphism ? Note Syntax is not a code example... it is the grammar...

In the subclass, you define a method with the same name as a method in the super class.

(base) returnType name1() {doThing1};

(sub) returnType name1() {doThing2};

5) How is syntax of the Java statements like the grammar of a spoken language ?

Syntax is the writing rules, or grammar, of a programming language. Like how grammar dictates how we write and structure sentences, syntax dictates how a programming language is written.

6) Find a good website that explains Java Polymorphism..

<https://www.geeksforgeeks.org/polymorphism-in-java/>