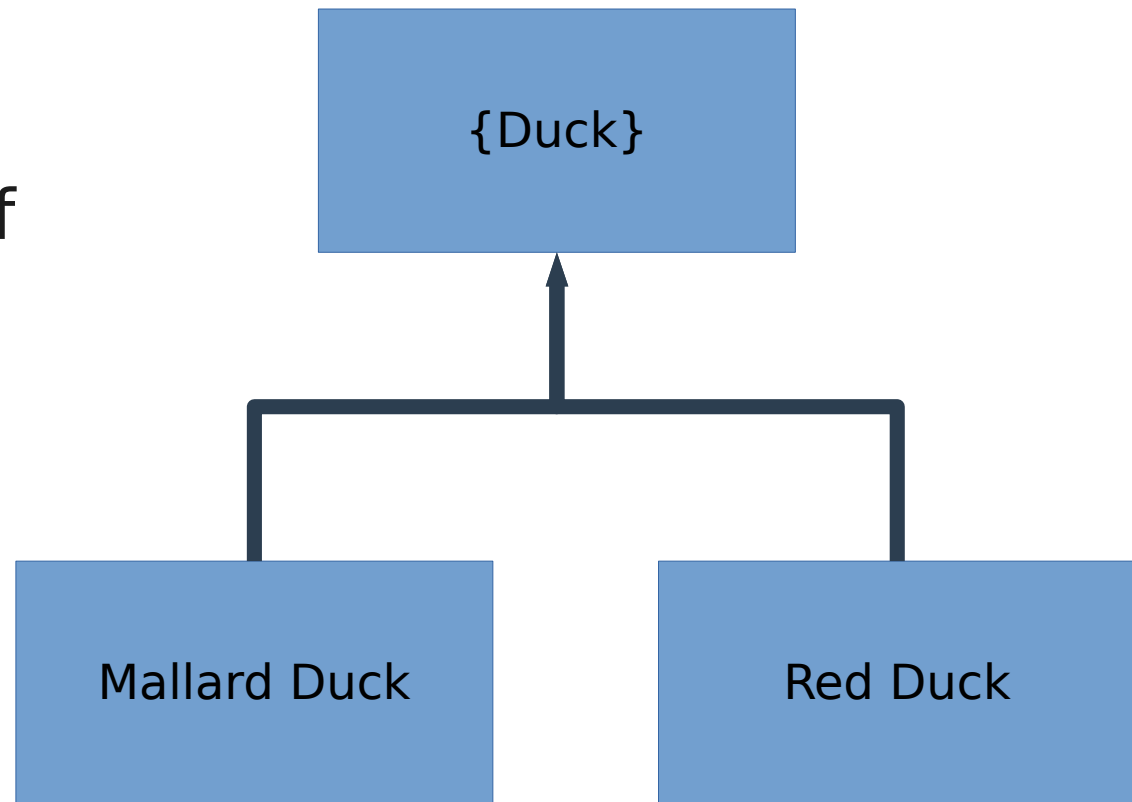


Polymorphism

Abstract Parent Classes

- Block the creation of parent class
- Creation allowed only of subclass
- Parent can force implementation of specific behaviors
- Used in case of generic and specific behavior exist



Polymorphism

- Perform a single action in different ways
- Derived from 2 Greek words: "poly" means many and "morphs" means forms
- Two types:
 - Compile-time polymorphism - overload method in Java
 - Runtime polymorphism - call to an overridden method is resolved at runtime rather than compile-time

Assignment

- Turn the below methods to abstract in the parent class
 - quack()
 - fly()
 - display()
- Ensure that there are no compilation errors
- Ensure that the code runs when object of any of the subclass is instantiated