

## **CS1410**

### **Processing Invoices**

**Anthony Brownness**  
**CS1410-004**

#### **Reflection**

The main goal is to ensure that the “contract” of the interface Payable and its method `getPaymentAmount()` is followed through by each sub class. This `getPaymentAmount()` method is downcasted to each sub class as a shared attribute so the call from the super class can be calculated via a single call.

The `BasePlusCommissionEmployee` must be processed correctly because it shares attributes from both the `CommissionEmployee` superclass and `SalariedEmployee` class but the `CommissionEmployee` class cannot extend the `Salaried Employee` class as it does not contain the same attributes. These properties can be downcasted into the `BasePlusCommissionEmployee` class.