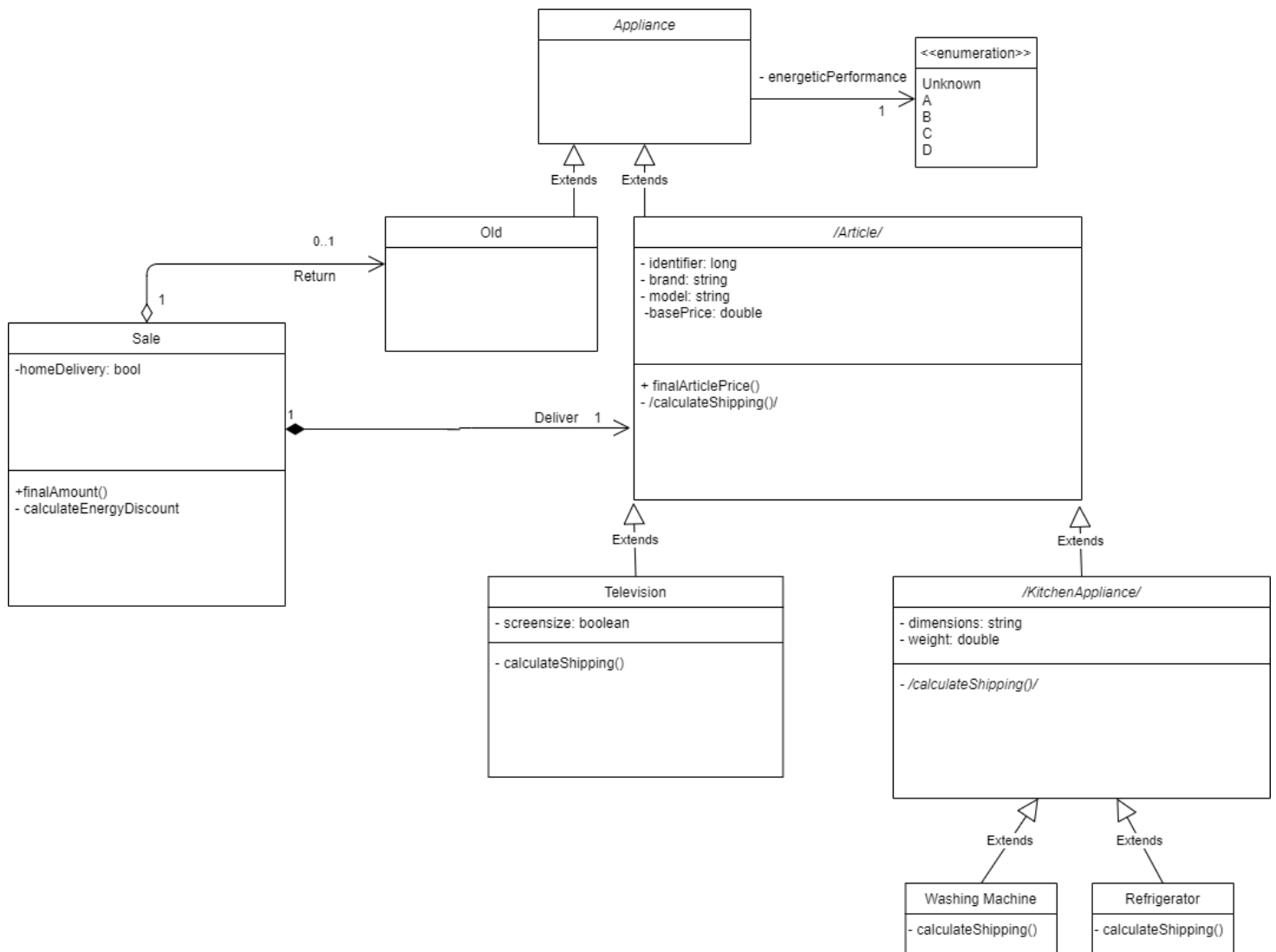


## EXERCISE 2



In this exercise, we need to design an application for the appliance sales. It is similar to the previous exercise as we also have an abstract class *Article* where two classes inherit, one is a simply article called *Television* and another is also an abstract class as the two other articles that inherit from it share some attributes and one method. The first design had TV, Washing Machines and Refrigerators directly inherit from Article but as Washing Machine and Refrigerator share variables I created a common abstract class.

Then, we have a class called *Sale* which depending on the article and the old appliance given by the class *Old*, it calculates the energy discount obtaining both bought article and old returned article (if present) and it returns the final amount to pay by the customer.

Classes *Article* and *Old* are inherited from the highest class called *Appliance* which has an enumeration class for saving the energy performance of the appliance in order to be considered in some subclasses.