# WORKSHOP – product\_w1

## 🔹 Objective

Design and implement a class hierarchy to model products in an e-commerce system. This workshop allows you to apply Java inheritance, constructors, method overriding, and the use of `super()`.

## 📘 Task Description

Create a class hierarchy with the following classes:

1. 1. Product (Base class)

* - Attributes: productName (String), basePrice (double)
* - Method: getFinalPrice() returns basePrice
* - Method: toString() returns product details and price

1. 2. TaxableProduct (Derived class)

* - Additional attribute: taxRate (double, e.g., 0.07 for 7%)
* - Overrides getFinalPrice() to return basePrice + tax

1. 3. DiscountedProduct (Derived class)

* - Additional attribute: discountRate (double, e.g., 0.10 for 10%)
* - Overrides getFinalPrice() to return basePrice - discount

1. 4. TestProduct (Main class)

* - Create one Product, one TaxableProduct, and one DiscountedProduct
* - Print their final prices and descriptions using System.out.println

## ✅ Expected Output (Sample)

Product: Book, Price: $10.00  
Taxable Product: Laptop, Final Price: $1070.00  
Discounted Product: Pen, Final Price: $0.90