

# Testing Code Examples

Code (adding diffe):

```
Product cheese = new Product(
    "Cheese",
    25.0F,
    15,
    new NotShippable(),
    new Expirable(2026)
);

Product phone = new Product(
    "Phone",
    5000.0F,
    1,
    new Shippable(500, 19.99F),
    new NotExpirable()
);

Product honey = new Product(
    "Honey",
    5.0F,
    8,
    new Shippable(100, 19.99F),
    new NotExpirable()
);

Product clock = new Product(
    "Clock",
    5.0F,
    100,
    new NotShippable(),
    new NotExpirable()
);

// Creating a Cart
Cart cart = new Cart(6000);

// Adding Items to cart
cart.add(cheese, 15);
cart.add(phone, 1);
cart.add(honey, 4);
cart.add(clock, 10);

cart.checkout();

System.out.println();
// Printing all shippable items using ShippingService
for (SimpleShippableI shippableItem : ShippingService.toBeShipped) {
    System.out.println("Shipping Item " + shippableItem.getName() + " with
weight: " + shippableItem.getWeight());
}
```

Output:

```
** Shipment Notice **
15x Cheese          0.0g
1x Phone            500.0g
4x Honey            400.0g
10x Clock           0.0g
Total package weight 900.0g

** Checkout receipt **
15x Cheese          375.0$
1x Phone            5000.0$
4x Honey            20.0$
10x Clock           50.0$
-----
Subtotal            5445.0$
Shipping             39.98$
Amount              5484.98$
Current Balance after checkout = 515.02$

Shipping Item Phone with weight: 500.0
Shipping Item Honey with weight: 100.0
```

Code (adding 2 phones while having only 1 in stock):

```
package org.example;

public class Main {
    public static void main(String[] args) {
        try {
            Product cheese = new Product(
                "Cheese",
                25.0F,
                15,
                new NotShippable(),
                new Expirable(2026)
            );

            Product phone = new Product(
                "Phone",
                5000.0F,
                1,
                new Shippable(500, 19.99F),
                new NotExpirable()
            );
        }
    }
}
```

```

    );

    Product honey = new Product(
        "Honey",
        5.0F,
        8,
        new Shippable(100, 19.99F),
        new NotExpirable()
    );

    Product clock = new Product(
        "Clock",
        5.0F,
        100,
        new NotShippable(),
        new NotExpirable()
    );

    // Creating a Cart
    Cart cart = new Cart(6000);

    // Adding Items to cart
    cart.add(cheese, 15);
    cart.add(phone, 2);
    cart.add(honey, 4);
    cart.add(clock, 10);

    cart.checkout();

    System.out.println();
    // Printing all shippable items using ShippingService
    for (SimpleShippableI shippableItem :
ShippingService.toBeShipped) {
        System.out.println("Shipping Item " + shippableItem.getName()
+ " with weight: " + shippableItem.getWeight());
    }

    } catch (Exception e) {
        System.out.println(e.getMessage());
    }

}
}

```

Output:

```
Phone:: Not enough stock available
```

Code (adding same products but with no sufficient balance):

```
package org.example;
```

```

public class Main {
    public static void main(String[] args) {
        try {
            Product cheese = new Product(
                "Cheese",
                25.0F,
                15,
                new NotShippable(),
                new Expirable(2026)
            );

            Product phone = new Product(
                "Phone",
                5000.0F,
                1,
                new Shippable(500, 19.99F),
                new NotExpirable()
            );

            Product honey = new Product(
                "Honey",
                5.0F,
                8,
                new Shippable(100, 19.99F),
                new NotExpirable()
            );

            Product clock = new Product(
                "Clock",
                5.0F,
                100,
                new NotShippable(),
                new NotExpirable()
            );

            // Creating a Cart
            Cart cart = new Cart(4000);

            // Adding Items to cart
            cart.add(cheese, 15);
            cart.add(phone, 1);
            cart.add(honey, 4);
            cart.add(clock, 10);

            cart.checkout();

            System.out.println();
            // Printing all shippable items using ShippingService
            for (SimpleShippableI shippableItem :
ShippingService.toBeShipped) {
                System.out.println("Shipping Item " + shippableItem.getName()
+ " with weight: " + shippableItem.getWeight());
            }

        } catch (Exception e) {
            System.out.println(e.getMessage());
        }
    }
}

```

```
    }  
    }  
}
```

Output:

```
Insufficient Balance
```

Code (Checking out an empty cart):

```
package org.example;  
  
public class Main {  
    public static void main(String[] args) {  
        try {  
  
            // Creating a Cart  
            Cart cart = new Cart(4000);  
  
            cart.checkout();  
  
            System.out.println();  
            // Printing all shippable items using ShippingService  
            for (SimpleShippableI shippableItem :  
ShippingService.toBeShipped) {  
                System.out.println("Shipping Item " + shippableItem.getName()  
+ " with weight: " + shippableItem.getWeight());  
            }  
  
        } catch (Exception e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

Output:

```
Cart is Empty
```

Code (checking out with no shippable products):

```
package org.example;  
  
public class Main {  
    public static void main(String[] args) {  
        try {  
            Product cheese = new Product(  
                "Cheese",  
                25.0F,  
                15,  
                new NotShippable(),  
                new Expirable(2026)  
            );  
        }  
    }  
}
```

```

    );

    Product clock = new Product(
        "Clock",
        5.0F,
        100,
        new NotShippable(),
        new NotExpirable()
    );

    // Creating a Cart
    Cart cart = new Cart(4000);

    // Adding Items to cart
    cart.add(cheese, 15);
    cart.add(clock, 10);

    cart.checkout();

    System.out.println();
    // Printing all shippable items using ShippingService
    for (SimpleShippableI shippableItem :
ShippingService.toBeShipped) {
        System.out.println("Shipping Item " + shippableItem.getName()
+ " with weight: " + shippableItem.getWeight());
    }

    } catch (Exception e) {
        System.out.println(e.getMessage());
    }

}
}

```

Output:

```

** Shipment Notice **
15x Cheese          0.0g
10x Clock           0.0g
Total package weight 0.0g

** Checkout receipt **
15x Cheese          375.0$
10x Clock           50.0$
-----
Subtotal            425.0$
Shipping            0.0$
Amount              425.00$
Current Balance after checkout = 3575.00$

```

Code (2 carts but not enough stock in cheese):

```
package org.example;

public class Main {
    public static void main(String[] args) {
        try {
            Product cheese = new Product(
                "Cheese",
                25.0F,
                15,
                new NotShippable(),
                new Expirable(2026)
            );

            Product phone = new Product(
                "Phone",
                5000.0F,
                1,
                new Shippable(500, 19.99F),
                new NotExpirable()
            );

            Product honey = new Product(
                "Honey",
                5.0F,
                8,
                new Shippable(100, 19.99F),
                new NotExpirable()
            );

            Product clock = new Product(
                "Clock",
                5.0F,
                100,
                new NotShippable(),
                new NotExpirable()
            );

            // Creating a Cart
            Cart cart = new Cart(6000);

            // Adding Items to cart
            cart.add(cheese, 15);
            cart.add(phone, 1);
            cart.add(honey, 4);
            cart.add(clock, 10);

            cart.checkout();

            // Creating a Cart
            Cart cart1 = new Cart(2000);

            // Adding Items to cart
            cart1.add(cheese, 15);
```

```

        cart1.checkout();

        System.out.println();
        // Printing all shippable items using ShippingService
        for (SimpleShippableI shippableItem :
ShippingService.toBeShipped) {
            System.out.println("Shipping Item " + shippableItem.getName()
+ " with weight: " + shippableItem.getWeight());
        }

    } catch (Exception e) {
        System.out.println(e.getMessage());
    }

}
}

```

Output:

```

** Shipment Notice **
15x Cheese          0.0g
1x Phone            500.0g
4x Honey            400.0g
10x Clock           0.0g
Total package weight 900.0g

** Checkout receipt **
15x Cheese          375.0$
1x Phone            5000.0$
4x Honey            20.0$
10x Clock           50.0$
-----
Subtotal            5445.0$
Shipping             39.98$
Amount              5484.98$
Current Balance after checkout = 515.02$
Cheese:: Not enough stock available

```