

Screenshot of an IDE (IntelliJ IDEA) showing a Java project named "e-commerce system" with a file named "ECommerceSystem.java" open. The code defines a public class ECommerceSystem with a main method. The main method creates two carts, cart1 and cart2, and adds products to them. It also creates two customers, customer1 and customer2, and calls the shippingService.shippingService method.

```
public class ECommerceSystem {
    public static void main(String[] args) {
        cart1.add(product1, quantity: 1);
        cart1.add(product2, quantity: 2);
        cart2.add(product3, quantity: 1);
        cart2.add(product2, quantity: 1);
        Customer customer1 = new Customer("customer1", "customer1@email.com");
        Customer customer2 = new Customer("customer2", "customer2@email.com");
        ShippingService shippingService = new ShippingService();
    }
}
```

The Run window shows the output of the program, which includes a shipment notice and a checkout receipt.

Shipment notice

Item	Weight
1x TV	1.3kg
1x cheese	400.0g
Total package weight 1.7kg	

Checkout receipt

Item	Price
1x TV	400.0
1x cheese	150.0

Subtotal	550.0
Shipping	49.5
Amount	599.5

Process finished with exit code 0

IntelliJ IDEA interface showing a Java project named "e-commerce system". The main file, `ECommerceSystem.java`, is open, displaying the following code:

```
public class ECommerceSystem {
    public static void main(String[] args) {
        Cart cart2 = new Cart();

        cart1.add(product4, quantity: 1);
        cart1.add(product2, quantity: 2);
        cart2.add(product3, quantity: 1);
        cart2.add(product2, quantity: 1);

        Customer customer1 = new Customer(name: "Ahmed", balance: 1, cart1);
        Customer customer2 = new Customer(name: "Tarek", balance: 1000, cart2);

        ShippingService shippingService = new ShippingService(cart1);
    }
}
```

The Run window shows the execution output:

```
C:\Users\hp\.jdk\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.2.1\lib\idea_rt.jar=49745:C:\Program Files\JetBrains\IntelliJ IDEA 2024.2.1\bin" -Didea.config.path=C:\Program Files\JetBrains\IntelliJ IDEA 2024.2.1\config -Didea.system.path=C:\Program Files\JetBrains\IntelliJ IDEA 2024.2.1\system -Didea.version=2024.2.1
** Shipment notice **
1x cheese 200.0g
Total package weight 200.0g

Exception in thread "main" java.lang.IllegalStateException: ERROR: The balance is insufficient
    at Checkout.checkout(Checkout.java:37)
    at ECommerceSystem.main(ECommerceSystem.java:27)

Process finished with exit code 1
```

The bottom status bar indicates the current file is `ECommerceSystem.java` at line 27, column 9 (53 chars). The system tray shows the temperature is 34°C and the date is 7/5/2025.

Screenshot of an IDE (IntelliJ IDEA) showing a Java project named "e-commerce system" with a main class "ECommerceSystem.java". The code defines a public class ECommerceSystem with a main method. The main method creates a Product object (product4) and two Cart objects (cart1 and cart2). It then adds products to the carts. The code is as follows:

```
public class ECommerceSystem {  
    public static void main(String[] args) {  
        Product product4 = new ExpirableProduct( name: "Radio", price: 400, quantity: 2, LocalDate.now().plusYears( yearsToAdd: 1));  
        Cart cart1 = new Cart();  
        Cart cart2 = new Cart();  
        cart1.add(product4, quantity: 10000);  
        cart1.add(product2, quantity: 2);  
        cart2.add(product3, quantity: 1);  
        cart2.add(product2, quantity: 1);  
        Customer customer1 = new Customer( name: "Ahmed", balance: 1000, cart1);  
    }  
}
```

The Run console shows the following output:

```
C:\Users\hp\.jdk\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.2.1\lib\idea_rt.jar=49888:C:\Program Files\JetBrains\IntelliJ IDEA 2024.2.1\bin" -jar C:\Users\hp\IdeaProjects\e-commerce system\out\production\e-commerce system\ECommerceSystem.jar  
Exception in thread "main" java.lang.IllegalArgumentException: There is not enough quantities for Radio  
    at Cart.add(Cart.java:15)  
    at ECommerceSystem.main(ECommerceSystem.java:18)  
Process finished with exit code 1
```

The status bar at the bottom shows the file path: "e-commerce system > src > ECommerceSystem > main". The bottom right corner displays the system clock: "1:10 PM 7/5/2025".