Project 3

Let's proceed with the next steps for enhancing the inventory project.

Step 1: Modify 'ProductTester' Class to Include User Input and Exception Handling

- 1. **Ask the user to enter the number of products they wish to add**:
 - We will use a 'do-while' loop to ensure the user inputs a valid positive integer or zero.
 - We'll handle exceptions for incorrect data type entries.
- 2. **Handle multiple products using an array**:

if (maxSize < 0) {

- If the user enters zero, display a message and end the program.
- Otherwise, create an array of `Product` objects and populate it using user inputs.

```
System.out.println("Incorrect Value entered");
    }
  } catch (Exception e) {
    System.out.println("Incorrect data type entered! Please enter a valid integer.");
    in.nextLine(); // Clear the input buffer
  }
} while (maxSize < 0);
if (maxSize == 0) {
  System.out.println("No products required!");
} else {
  Product[] products = new Product[maxSize];
  int tempNumber;
  String tempName;
  int tempQty;
  double tempPrice;
  for (int i = 0; i < maxSize; i++) {
    in.nextLine(); // Clear the input buffer
    System.out.println("Enter the details for Product " + (i + 1) + ":");
    System.out.print("Item Number: ");
    tempNumber = in.nextInt();
    in.nextLine(); // Consume newline left-over
    System.out.print("Name: ");
    tempName = in.nextLine();
    System.out.print("Quantity: ");
    tempQty = in.nextInt();
    System.out.print("Price: ");
    tempPrice = in.nextDouble();
    // Create a new product and add it to the array
```

```
products[i] = new Product(tempNumber, tempName, tempQty, tempPrice);
}

// Display the details of each product using a for-each loop
System.out.println("\nProduct details:");
for (Product product : products) {
    System.out.println(product.toString());
}

// Closing the Scanner
in.close();
}
```

Updates to `Product` Class

No changes are needed to the 'Product' class as it already meets the requirements for this part of the project.

Step 8: Save Your Project

Ensure all changes are saved in your IDE or text editor.

This completes the required updates for Section 6 of the inventory project. Run and test the program to ensure it works as expected. If you have any issues or need further assistance, feel free to ask!