```
import java.util.ArrayList;
public class ShoppingCart {
  private ArrayList<Product> cart;
  private ArrayList<Integer> quantities;
  public ShoppingCart() {
     this.cart = new ArrayList<>();
     this.quantities = new ArrayList<>();
  }
  public void addToCart(Product product, int quantity) {
     if (product.reduceStock(quantity)) {
       cart.add(product);
        quantities.add(quantity);
        System.out.println(quantity + " x " + product.getName() + " added to your cart!");
        System.out.println("Sorry, not enough stock for " + product.getName() + ".");
     }
  }
  public void displayCart() {
     System.out.println("\nYour Shopping Cart:");
     if (cart.isEmpty()) {
       System.out.println("Your cart is empty.");
        return;
     }
     double total = 0;
     for (int i = 0; i < cart.size(); i++) {
        Product product = cart.get(i);
        int quantity = quantities.get(i);
        double subtotal = product.getPrice() * quantity;
        System.out.printf("- %d x %s: %.2f\n", quantity, product.getName(), subtotal);
        total += subtotal;
     System.out.printf("Total: %.2f\n", total);
  }
}
```