

In this assignment, we are managing a Shopping Cart that will contain items and be able to perform actions such as adding an item to the cart, deleting an item from the cart, searching for an item from the cart, updating the quantity of an item from the cart, and printing all the items – and their attributes – in the cart. We will have an Item class with Electronics, Clothing and Grocery sub-classes for each type of item that we can put into our shopping cart. The methods to calculate price, shipping, and tax will be contained within these classes. A driver program will use these classes and handle all the shopping cart operations. We will receive input through a text file. We must first check if the input is in valid form. We will then determine which action to take based on the input. We will continue through the text file until there is no more input to process.