**Mastercoder ordering program**

The functionality: The code in this scenario allows its users to order groceries from a grocery shop since the grocery shop has a particular list of items it has available, and the user can easily select which item they want and in what quantity. The program has used the binary search function to the maximum as it has been utilized to search for the item, its quantity and the unit packaging the item is sold in. Binary search algorithm is the primary process of the program that initiates all the other processes such as prompting the user to enter the quantity of item, etc. As you can see in the code after ordering, the quantity of the item is also updated.

The application: This scenario is definitely very limited and by limited, I mean that this program can easily be expanded by connecting a database and having numerous items, of different brands and varying prices, etc. This program has just been used to showcase how the basic processes would work if this program were ever to become practical with people ordering through it. Not only ordering groceries, this program can be utilized to order anything, for example: a laptop from a hardware store, a book from a book store, etc. Not only for the consumer, but this program is also allowing stock management for the seller as it updates the quantity of items as soon as the consumer orders, giving it the potential of becoming an effective stock management software which is so useful for companies and small businesses. A firm like amazon inc, can use this to update their stock and manage reordering, a company like Walmart can use it to allow its consumers to directly order online, etc.