ICS4U – Assignment – Inventory Tracking Program

Create an inventory program (in java) that tracks products and their quantities for a company.
Each product in the inventory program must have

1. Product code – a user specified code assigned to each product; must be unique to each product
2. Product description – a brief description of what the product is
3. Quantity in stock – the current number of items the company has in their warehouse.
4. Total sales – total quantity sold to date.

The program may be menu driven and have the following options:

1. List current inventory – lists all the products in inventory with qty in stock.
2. List product detail – list all details about a product.
3. Add new product – adds a new product to the inventory list.
4. Remove product from inventory – removes a product from inventory.
5. Edit product – edit the details of a product.
6. List of all products that have a quantity of 10 or less in inventory.
7. Search – List of all products containing a key word.
8. Save changes – save the current inventory list to txt file.
9. Quit – quit program (automatically saves changes)

- The inventory data should be kept in a .txt file called "myInventory.txt" and is read at program start and saved by the program as the same file. "myInventory.txt" will be a live document that is updated as the inventory information changes.
- The java program must use a "Product" class that contains all the information required.
    - All product data must be set to private   (private String data1;)
    - All data obtained must use a method called "getData1()" (that contains a return)
        - DO NOT use   product[0].data1
    - All data entered into product information must use methods or constructors
        - Use the format   setData1("description goes here")
        - DO NOT use   product[0].data1 = "description goes here"
- The program must use an array (or arrayList) of a "Product" object.
- Error checking must be implemented to avoid program crashing