Assignment 3 Grading Rubric
Total: 94 points

- **File Input**   **12 points**
  - Opens file without crashing   (5 points)
  - All contents read in correctly   (6 points)
  - File closed   (1 point)

- **File Output**   **7 points**
  - Opens same file for output   (1 point)
  - Final values written to file in same format as input file   (5 points)
  - File closed properly   (1 point)

- **Main Menu**   **10 points**
  - Balance displayed correctly   (1 point)
  - Menu options for each product displayed correctly   (8 points)
    - Includes name, quantity, and price
    - Starts counting at 1
  - Exit option (number 0)   (1 point)

- **Product Menu and Operations**   **28 points**
  - Displays current balance, product quantity, and product price correctly   (2 point)
  - Four menu options:
    - Sell
      - Warns the user when selling more than is in stock and asks whether to continue with the sale or not   (5 points)
      - Increase the balance to include the money made off of the sale   (1 point)
      - Behaves as described   (3 points)
    - Buy
      - Warns user when spending more money than the company currently has and does not allow   (5 points)
      - Behaves as described   (3 points)
    - Change Price
      - Does not allow negative prices. Asks until positive price is allowed   (5 points)
      - Behaves as described   (3 points)
    - Exit   (1 point)

- **Functions**   **15 points**
  - Five functions written   (5 points)
  - Functions written correctly   (5 points)
  - Reason for writing these functions explained in information sheet   (5 points)

- **General**   **10 points**
  - Includes:
    - Dollar amounts formatted correctly

- ▪ Output easily readable
- ▪ Correct data types used

- • **Documentation**   **12 points**
  - ○ Functions properly documented   (5 points)
  - ○ Comments in body of code   (5 points)
    - ▪ Provide short, clear description of what section of code is doing
    - ▪ Not overly-commented (3 – 7 comments should be sufficient)
  - ○ Variable names are short but descriptive   (2 points)

- • **Extra Credit**
  - ○ **Add new product**   **+8 points**
    - ▪ Asks user for needed information and validates it   (4 points)
      - • Name, price, quantity
    - ▪ If a product with that name already exists, ask for a new name   (4 points)
    - ▪ User can add unlimited number of products

  - ○ **Multi-word product names**   **+2 points**
    - ▪ Specify in assignment information sheet and describe any changes to file format