Assignment #1 (100 Points)
Due on May 15

For this assignment, you will create a POS system that will have the capability to make a purchase, make a return, add inventory and view reports.

Process:
When app is running:

- Display a welcome message where you will display options and have the user select the following options.

When 1 is selected:

- The whole function for making a purchase, calculating the total price and displaying the total price and giving user thanks for shopping should be implemented in either inheritance or polymorphism
- Retrieve all the items from the array or list
- Ask the user what item they want to buy through Item Name
- Save the item name and price that the user selects to another array or list
- Ask the user if anything else
    - If the user wants anything else, then repeat the question.
    - If the user doesn't want anything else, then calculate the total price by looping through the array or list
    - Display the total
    - Clear the array
    - Save the total in another array or that will consist of the price total
    - Give thanks to the user for shopping
    - Return to the Main Menu

When 2 is selected:

- The whole function for making a return, calculating the total price and displaying the total price and giving user return is completed should be implemented in either inheritance or polymorphism
- Retrieve all the items from the array or list
- Ask the user what item they want to return through Item Name
- Save the item name and price that the user selects to another array or list
- Ask the user if anything else
    - If the user wants anything else, then repeat the question.

- o If the user doesn't want anything else, then calculate the total price by looping through the array or list
- o Display the total that they will be refunded
- o Clear the array
- o Give thanks to the user for shopping
- o Return to the Main Menu

When 3 is selected:
- Utilize either array or list to save or retrieve the product name and price
- Display a list of products retrieved from the array or list.
- Add the options to either add or remove product
- **When 1 is selected**
  - o Ask user for item name and price
  - o Save it to an array or list
  - o Return to Manage Inventory Page
- **When 2 is selected**
  - o Ask user for item name that you want to remove
  - o Remove it from the array or list
  - o Make error exception for items not found
  - o Return to Manage Inventory Page
- **When 3 is selected**
  - o Go back to the Main Menu Page

When 4 is selected:
- Retrieve price total from Reports array or list
- Display number of customer that you had for the session (Hint: You can use arrayname.Count() to retrieve the total elements in the array or list)
- Display total profits by computing all the values using for loop
- Have user click any key to return to the main menu.

Output:
Welcome to Target! Choose the following options:
1) Make a Purchase
2) Make a Return
3) Manage Inventory
4) View Report

If 1 is selected, then output this
Which product would you like to purchase?
/* Retrieve items from array or list */
Item Name   Price
Lego Star Wars $25
Cookie $5

Which items would you like to buy? _____ (Item name goes here)
Anything else? _____ (Y/N)

If Y is selected,
/*Repeat the question */

If N is selected,
/* Compute the total and display the total*/
Your Total is _____.
Thank you for shopping at Target!
/* Return to Main Menu */

If 2 is selected, then output this
Which product would you like to return?
/* Retrieve items from array or list */
Item Name   Price
Lego Star Wars $25
Cookie $5

Which items would you like to return? _____ (Item name goes here)
Anything else? _____ (Y/N)

If Y is selected,
/*Repeat the question */

If N is selected,
/* Compute the total and display the total*/
Your Refund total is _____.
Thank you for shopping at Target!
/* Return to Main Menu */

If 3 is selected, then output this
Manage Inventory
The following items is currently stored in the system:
/* Retrieve values from the array or list */
Item Name   Price
Lego Star Wars $25
Cookie $5

    1) Add New Item
    2) Remove Item
    3) Main Menu

If 1 is selected, then output this
Add Item:
Item Name _____
Item Price _____
/* Save it to an array or list */
Added Successfully!!
/* Then go back to Manage Inventory Page */

If 2 is selected, then output this
Remove Item:
Item Name to remove: _____
Item Removed Successfully
If item is not found
Item Not Found! Please Try Again!
/* Then go back to Manage Inventory Page */

If 4 is selected, then output this:
Reports:
Total Customers: _____
Total Profit: _____
Click any key to go back to the main menu