

Task 1 Online Shop:

Develop a simplified online shop system where users can add products to a shopping cart, view the total cost, and place an order.

You can define classes for product, shopping cart, and order processing.

- Define the **Product** class to represent individual products. Each product has **a name and a price**.

- Define the **ShoppingCart** class to manage the shopping cart functionality.

It should have methods to add and remove items, calculate the total cost, and retrieve the items in the cart.

- Define the **OrderProcessor** class to handle order processing.

It should have a `placeOrder` method,

Actually in this method we should have a big logic. But now in our example, please simply print the order details (each item and price) and total cost for the cart.

In the `main` method, we create some sample products, create a shopping cart, add products to the cart, and then display the total cost. Finally, we create an instance of **OrderProcessor** and use it to place the order, which will print the order details.

Note* handle all exception ex:

- price cannot be less than 0

- And Make `ValidationUtil` to validate on String (cannot be null or empty)

Task 2:

Count words) Write a program that counts the number of words in the file

Task instructions:

use this [input file](#)

Make a file named Lincoln.txt

Copy the text on this url and paste it to the file

Print the number of the words inside the file.