

Problem Statement:

You have been hired by a company to create a program that can calculate the total revenue generated by a business. The business sells two types of products, Product A and Product B. The program should take input from the user in the form of the number of units sold and the selling price per unit for each type of product. The program should then calculate the total revenue generated by the business based on the following criteria:

1. Product A sells for \$10 per unit and the business sold 500 units of Product A.
2. Product B sells for \$20 per unit and the business sold 200 units of Product B.

The program should implement the following methods:

1. **calculateRevenue(int productACount, int productASellingPrice, int productBCount, int productBSellingPrice)** - This method should take the number of units sold and the selling price per unit for each product as input and return the total revenue generated by the business.

Your Java program should have a main method that takes user input for the number of units sold and the selling price per unit for each product. The program should then call the **calculateRevenue** method to calculate the total revenue generated by the business and display it to the user.

In addition, the program should also implement the following features:

1. The program should validate the user input to ensure that the input values are positive integers.
2. The program should display an error message and prompt the user to enter the input again if the input values are invalid.
3. The program should allow the user to repeat the revenue calculation by entering 'y' or 'Y' when prompted.

Note: You can assume that the input values for the selling prices are in dollars.