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package aug24.lab;
import java.util.Scanner;

public class LabF1KioXiaoJie
{
   public static void main(String[] args)
   {
      Scanner scanner = new Scanner(System.in);

      int product1 = 0, product2 = 0, product3 = 0;

      product1 = getStock(scanner, 1);
      product2 = getStock(scanner, 2);
      product3 = getStock(scanner, 3);

      boolean run = true;
      while (run)
      {
         displayMenu();
         int choice = scanner.nextInt();

         switch (choice)
         {
            case 1:
               int addProduct = getProduct(scanner);
               int addQuantity = getQuantity(scanner, "add");

               if (addProduct == 1) product1 += addQuantity;
               if (addProduct == 2) product2 += addQuantity;
               if (addProduct == 3) product3 += addQuantity;

               System.out.println("Quantity updated");
               break;

            case 2:
               int removeProduct = getProduct(scanner);
               int removeQuantity = getQuantity(scanner, "remove");

               if (removeProduct == 1 && product1 >= removeQuantity)
                  product1 -= removeQuantity;
               else if (removeProduct == 2 && product2 >= removeQuantity)
                  product2 -= removeQuantity;
               else if (removeProduct == 3 && product3 >= removeQuantity)
                  product3 -= removeQuantity;
               else
                  System.out.println("Quantity shouldn't be more than current quantity");
               break;
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            case 3:
                System.out.println("P1=" + product1 + " P2=" + product2 + " P3=" + product3);
                break;

            case 4:
                run = false;
                System.out.println("Thank you for using the system.");
                break;

            default:
                System.out.println("Invalid selection.");
        }
    }
    scanner.close();
}

public static int getStock(Scanner scanner, int productNumber)
{
    int quantity;
    do
    {
        System.out.print("Enter current stock quantity for product " + productNumber + ": ");
        quantity = scanner.nextInt();
        if (quantity < 0)
        {
            System.out.println("Quantity should be positive.");
        }
    } while (quantity < 0);
    return quantity;
}

public static void displayMenu()
{
    System.out.println("Menu:");
    System.out.println("1. Add stock");
    System.out.println("2. Remove stock");
    System.out.println("3. Check quantity");
    System.out.println("4. Quit");
    System.out.print("Enter selection (1/2/3/4): ");
}

public static int getProduct(Scanner scanner)
{
    int product;
    do {
        System.out.println("Product Selection:");
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            System.out.println("1. Product 1");
            System.out.println("2. Product 2");
            System.out.println("3. Product 3");
            System.out.print("Enter selection (1/2/3): ");
            product = scanner.nextInt();
            if (product < 1 || product > 3)
            {
               System.out.println("Invalid selection.");
            }
        } while (product < 1 || product > 3);
        return product;
    }

    public static int getQuantity(Scanner scanner, String action)
    {
        int quantity;
        do {
            System.out.print("Enter quantity to " + action + ": ");
            quantity = scanner.nextInt();
            if (quantity < 0)
            {
               System.out.println("Quantity should be positive.");
            }
        } while (quantity < 0);
        return quantity;
    }
}
```