class name : Product

data members : prdid, prddescription, batchcode, price, profit;

method: addproduct() with args assign the values to datamembers and display to user

(with args and no return value)

calculate_profit() if price>=10000 and <=100000 profit is 10% on price

if price between 100000 to 500000 profit is 15% on price

if price is >500000 profit is 20% on price (with return type and no args)

```java
import java.util.Scanner;

class Product
{
    private int prdid;
    private String prddescription;
    private String batchcode;
    private double price;
    private double profit;

    public void addProduct(int prdid, String prddescription, String batchcode,
double price)
    {
        this.prdid = prdid;
        this.prddescription = prddescription;
        this.batchcode = batchcode;
        this.price = price;
        displayProductInfo();
    }

    public void calculateProfit() {
        if (price >= 10000 && price <= 100000) {
            profit = price * 0.10;
        } else if (price > 100000 && price <= 500000) {
            profit = price * 0.15;
        } else if (price > 500000) {
            profit = price * 0.20;
        }
        System.out.println("Profit: " + profit);
    }

    public void displayProductInfo() {
        System.out.println("Product ID: " + prdid);
        System.out.println("Product Description: " + prddescription);
        System.out.println("Batch Code: " + batchcode);
        System.out.println("Price: " + price);
    }


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

        System.out.print("Enter Product ID: ");
        int prdid = scanner.nextInt();
        scanner.nextLine(); // Consume newline
        System.out.print("Enter Product Description: ");
        String prddescription = scanner.nextLine();
```

```java
        System.out.print("Enter Batch Code: ");
        String batchcode = scanner.nextLine();
        System.out.print("Enter Price: ");
        double price = scanner.nextDouble();

        product.addProduct(prdid, prddescription, batchcode, price);
        product.calculateProfit();

        scanner.close();
    }
}
```

Output:

```
Enter Product ID: 101
Enter Product Description: Sample Product
Enter Batch Code: ABC123
Enter Price: 75000
Product ID: 101
Product Description: Sample Product
Batch Code: ABC123
Price: 75000.0
Profit: 11250.0
```