Assignment

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1.

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)

Program

```
package javapractice;
import java.util.Scanner;
public class Product {
  int prdid;
  String prddescription;
  String batchcode;
  double price;
  double profit;
  void addProduct (int prdid, String prddescription, String batchcode,
  double price) {
    this.prdid = prdid;
    this.prddescription = prddescription;
    this.price = price;
  }
  double calculateProfit() {
    if (price >= 10000 && price <= 100000) {
        profit = 0.10 * price;
    } else if (price > 100000 && price <= 500000) {
        profit = 0.20 * price;
    } else if (price > 500000) {
        profit = 0.20 * price;
    } else {
        profit = 0; // No profit for price below 10,000
    }
    return profit;
}
void displayProduct() {
    System.out.println("Product ID: " + prdid);
    System.out.println("Product Description: " + prddescription);
```

```
System.out.println("Price: " + price);
 ystem.out.println("Profit: " + calculateProfit());
 ublic static void main(String[] args) {
Scanner obj = new Scanner(System.in);
 ystem.out.print("Enter Product ID: ");
nt prdid = obj.nextInt();
obj.nextLine();
System.out.print("Enter Product Description: ");
String prddescription = obj.nextLine();
System.out.print("Enter Batch Code: ");
String batchcode = obj.nextLine();
System.out.print("Enter Price: ");
louble price = obj.nextDouble();
Product product = new Product();
product.addProduct(prdid, prddescription, batchcode, price);
product.displayProduct();
```

ystem.out.println("Batch Code: " + batchcode);

Output:

```
Enter Product ID:
1002
Enter Product Description: good product
Enter Batch Code: CWFA
Enter Price: 12000
Product ID: 1002
Product Description: good product
Batch Code: CWFA
Price: 12000.0
Profit: 1200.0
```