Experiment-2

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1. Aim:

To create a Product class with attributes id, name, and price, and demonstrate the use of constructors and methods to display product details.

2. Objective

• Understand the use of classes and objects in Java.
• Learn the concept of constructors to initialize attributes.
• Implement and call methods to display object details.
• Gain practical experience in object-oriented programming concepts.

3. Procedure

Step1: Define a class named Product with attributes id, name, and price.
Step2: Use a parameterized constructor to initialize these attributes.
Step3: Define a method displayDetails() to print product information.
Step4: In the main method, create an object and display its details.

4. JAVA Script :

```java
class Product {
    int id;
    String name;
    double price;

    Product(int id, String name, double price) {
        this.id = id;
        this.name = name;
        this.price = price;
    }

    void displayDetails() {
        System.out.println("Product Details:");
        System.out.println("ID: " + id);
        System.out.println("Name: " + name);
```

```java
        System.out.println("Price: " + price);
    }
}

public class Main {
    public static void main(String[] args) {
        Product p1 = new Product(101, "Laptop", 75000);
        p1.displayDetails();
    }
}
```

5. Output:

```
Product Details:
ID: 101
Name: Laptop
Price: 75000.0


Process finished with exit code 0
```

6. Learning Outcomes:
• Successfully created a Java class with attributes and methods.
• Understood the role of constructors in object initialization.
• Gained practical knowledge of object-oriented programming.
• Practiced encapsulating data and behavior within a class.
• Enhanced problem-solving skills using Java classes and objects.