## **Experiment 2**

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Subject: Java Subject Code: 22CSH-359

**1. Aim:** Write a Java program to create a Product class with attributes id, name, and price. The program should: Demonstrate the use of constructors and methods to display product details.

**2. Objective:** The objective of this Java program is to demonstrate the creation and usage of a class with attributes, the implementation of constructors, and the use of methods to manipulate and display object data. This experiment helps in understanding Object-Oriented Programming (OOP) concepts such as encapsulation, constructors, and methods.

## 3. Code:

```
class Product {
   String name;
   double price;
   Product(int id, String name, double price) { // parameterized constructor.
       this.name = name;
   void displayProduct() {
       System.out.println("Product ID: " + id);
       System.out.println("Product Name: " + name);
        System.out.println("Product Price: " + price);
public class ProductDemo {
   public static void main(String[] args) {
       Product product = new Product( id: 101, name: "Laptop", price: 59999.99);
        product.displayProduct();
```



## 4. Output:

Product ID: 101

Product Name: Laptop Product Price: 59999.99

Process finished with exit code  $\theta$ 

## 5. Learning outcomes:

- Understanding Object-Oriented Programming (OOP) concepts such as classes and objects.
- Learning how to use constructors to initialize object attributes.
- Implementing methods to display and manage object data.
- Practicing encapsulation by using private attributes and public methods.
- Enhancing problem-solving skills by applying real-world object management.
- Gaining hands-on experience in creating and handling multiple objects in Java.