**Problem 3: Product Class with LinkedHashSet**

**Problem Statement:**

Create a class named Product with the following private attributes:

* int productId
* String productName
* double productPrice
* int productQuantity

Include the following in your class:

* **Getters and Setters** for each private attribute.
* A **default constructor**.
* A **parameterized constructor** in the format:
* public Product(int productId, String productName, double productPrice, int productQuantity)

Create a Main class that:

1. Accepts the number of products to be added.
2. Accepts the details for each product (productId, productName, productPrice, productQuantity).
3. Stores the product objects in a **LinkedHashSet**.
4. Displays all product details in the order they were added.
5. Searches for a product by name in the set.

The input format:

1. The first line contains the number of products.
2. The next lines contain the product details.
3. The last line of input contains the name of the product to search for in the set.

**Output format:**

1. Print all product details.
2. Print whether the product is present in the set or not.

**Sample Input 1:**

3

1

Laptop

80000

5

2

Smartphone

50000

10

3

Tablet

25000

8

Smartphone

**Sample Output 1:**

1 Laptop 80000.0 5

2 Smartphone 50000.0 10

3 Tablet 25000.0 8

Smartphone is present in the set

**Sample Input 2:**

2

101

Washing Machine

15000

3

102

Refrigerator

25000

5

Microwave

**Sample Output 2:**

101 Washing Machine 15000.0 3

102 Refrigerator 25000.0 5

Microwave is not present in the set

**Problem 4: Course Class with LinkedHashSet**

**Problem Statement:**

Create a class named Course with the following private attributes:

* int courseId
* String courseName
* String instructorName
* int duration (in weeks)

Include the following in your class:

* **Getters and Setters** for each private attribute.
* A **default constructor**.
* A **parameterized constructor** in the format:
* public Course(int courseId, String courseName, String instructorName, int duration)

Create a Main class that:

1. Accepts the number of courses to be added.
2. Accepts the details for each course (courseId, courseName, instructorName, and duration).
3. Stores the course objects in a **LinkedHashSet**.
4. Displays all course details in the order they were added.
5. Searches for a course by name in the set.

The input format:

1. The first line contains the number of courses.
2. The next lines contain the course details.
3. The last line of input contains the name of the course to search for in the set.

**Output format:**

1. Print all course details.
2. Print whether the course is present in the set or not.

**Sample Input 1:**

2

101

Java Programming

John Smith

8

102

Data Structures

Mary Johnson

6

Data Structures

**Sample Output 1:**

101 Java Programming John Smith 8

102 Data Structures Mary Johnson 6

Data Structures is present in the set

**Sample Input 2:**

3

201

Machine Learning

Michael Clark

12

202

Cloud Computing

Emily White

10

203

Web Development

David Green

8

Cyber Security

**Sample Output 2:**

201 Machine Learning Michael Clark 12

202 Cloud Computing Emily White 10

203 Web Development David Green 8

Cyber Security is not present in the set