```
Demonstrate implementation of Query Methods feature of Spring Data JPA
package com.example.querymethods_demo.entity;
import jakarta.persistence.*;
@Entity
public class Product {
 @ld
 @GeneratedValue(strategy = GenerationType. IDENTITY)
 private Long id;
 private String name;
 private Double price;
 private String category;
 public Product() {}
 public Product(String name, Double price, String category) {
   this.name = name;
   this.price = price;
   this.category = category;
 }
 public Long getId() { return id; }
 public String getName() { return name; }
```

```
public Double getPrice() { return price; }
  public String getCategory() { return category; }
  public void setId(Long id) { this.id = id; }
  public void setName(String name) { this.name = name; }
  public void setPrice(Double price) { this.price = price; }
  public void setCategory(String category) { this.category = category; }
  @Override
  public String toString() {
    return "Product{" +
       "id=" + id +
       ", name='" + name + '\" +
       ", price=" + price +
       ", category="" + category + '\" +
       '}';
  }
}
package com.example.querymethods_demo.repository;
import com.example.querymethods_demo.entity.Product;
import org.springframework.data.jpa.repository.JpaRepository;
import java.util.List;
public interface ProductRepository extends JpaRepository<Product, Long> {
  List<Product> findByCategory(String category);
  List<Product> findByPriceLessThan(Double price);
```

```
Product findByName(String name);
  List<Product> findByNameContaining(String keyword);
}
package com.example.querymethods_demo;
import com.example.querymethods_demo.entity.Product;
import com.example.querymethods_demo.repository.ProductRepository;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
@Component
public class DataLoader implements CommandLineRunner {
  private final ProductRepository repo;
  public DataLoader(ProductRepository repo) {
   this.repo = repo;
 }
  @Override
  public void run(String... args) {
   repo.save(new Product("Laptop", 80000.0, "Electronics"));
   repo.save(new Product("Keyboard", 1500.0, "Electronics"));
   repo.save(new Product("Notebook", 50.0, "Stationery"));
   repo.save(new Product("Pen", 10.0, "Stationery"));
   repo.save(new Product("Refrigerator", 40000.0, "Appliances"));
   System.out.println("Products in Electronics:");
```

```
repo.findByCategory("Electronics").forEach(System.out::println);
  System.out.println("\nProducts cheaper than 1000:");
  repo.findByPriceLessThan(1000.0).forEach(System.out::println);
  System.out.println("\nProduct named 'Laptop':");
  System.out.println(repo.findByName("Laptop"));
  System.out.println("\nProducts with name containing 'note':");
  repo.findByNameContaining("note").forEach(System.out::println);
}
```

## **OUTPUT:**

}

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public void setPrice(Double price) { this.price = price; }
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Product{id=2, name='Keyboard', price=1500.0, category='Electronics'}
        Lab5
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        Products cheaper than 1000:
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           Product named 'Laptop':
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Product{id=1, name='Laptop', price=80000.0, category='Electronics'}
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Hibernate: select p1_0.id,p1_0.category,p1_0.name,p1_0.price from product p1_0 where p1_0.name
Product{id=3, name='Notebook', price=50.0, category='Stationery'}

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