**PROGRAM CODE**

import java.util.\*;

class Product{

private int id;

private String name;

private String category;

private double price;

public Product(int id,String name,String category,double price){

this.id=id;

this.name=name.toLowerCase();

this.category=category.toLowerCase();

this.price=price;

}

public String getName(){

return name;

}

public String getCategory(){

return category;

}

public double getPrice(){

return price;

}

public void displayProduct(){

System.out.println("ID: "+id+ ",Name: "+name+ ",Category: "+category+",price: "+price);

}

}

public class EcommerceSearch {

private static List<Product>productsList=new ArrayList<>();

public static void loadProducts(){

productsList.add(new Product(1,"Laptop","Electronics",45000));

productsList.add(new Product(2,"Smartphone","Electronics",25000));

productsList.add(new Product(3,"Running shoes","Footwear",4500));

productsList.add(new Product(4,"Shirt","Apparel",1900));

productsList.add(new Product(5,"Earbuds","Electronics",3000));

productsList.add(new Product(6,"SQL Programming","Books",1500));

productsList.add(new Product(7,"Java Programming","Book",5000));

}

public static void searchProduct(String keyword){

keyword=keyword.toLowerCase();

boolean found=false;

for (Product product:productsList){

if (product.getName().contains(keyword)||product.getCategory().contains(keyword)){

product.displayProduct();

found=true;

}

}

if (!found){

System.out.println("No product found:"+keyword);

}

}

public static void main(String[] args) {

Scanner scanner=new Scanner(System.in);

loadProducts();

System.out.println("Welcome to E-commerce Product Search: ");

String keyword=scanner.nextLine();

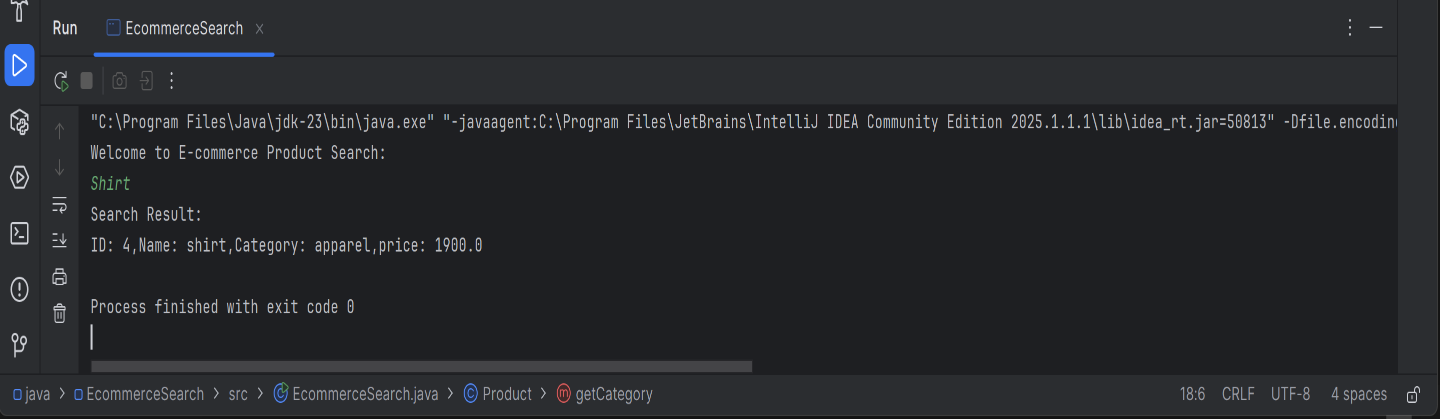
System.out.println("Search Result:");

searchProduct(keyword);

}

}

**OUTPUT**

****