Exercise 2: E-commerce Platform Search Function

#nullable enable

using System;

using System.Collections.Generic;

using System.Linq;

namespace EcommerceSearchApp

{

class Product

{

public int Id { get; set; }

public required string Name { get; set; }

public required string Category { get; set; }

public double Price { get; set; }

}

class Program

{

static void Main(string[] args)

{

List<Product> products = new List<Product>

{

new Product { Id = 1, Name = "Laptop", Category = "Electronics", Price = 70000 },

new Product { Id = 2, Name = "Smartphone", Category = "Electronics", Price = 25000 },

new Product { Id = 3, Name = "T-Shirt", Category = "Clothing", Price = 800 },

new Product { Id = 4, Name = "Shoes", Category = "Footwear", Price = 2000 },

new Product { Id = 5, Name = "Book: C# Programming", Category = "Books", Price = 500 }

};

Console.WriteLine("Enter search keyword:");

string? keyword = Console.ReadLine();

if (string.IsNullOrWhiteSpace(keyword))

{

Console.WriteLine("Search keyword is empty.");

return;

}

keyword = keyword.ToLower();

var searchResults = products

.Where(p => p.Name.ToLower().Contains(keyword) || p.Category.ToLower().Contains(keyword))

.ToList();

Console.WriteLine($"\nSearch Results for '{keyword}':");

if (searchResults.Count == 0)

{

Console.WriteLine("No products found.");

}

else

{

foreach (var product in searchResults)

{

Console.WriteLine($"ID: {product.Id}, Name: {product.Name}, Category: {product.Category}, Price: ₹{product.Price}");

}

}

}

}

}  
  
Output:  
