**EXERCISE 1**:E-Commerce Platform Search Function

**Program:**

using System;

class Product

{

public string name;

public string category;

public double price;

public Product(string n, string c, double p)

{

name = n;

category = c;

price = p;

}

}

class Program

{

static void Main(string[] args)

{

Product[] products = new Product[5];

products[0] = new Product("Laptop", "Electronics", 50000);

products[1] = new Product("Mobile", "Electronics", 25000);

products[2] = new Product("Shirt", "Clothing", 1500);

products[3] = new Product("Shoes", "Footwear", 2000);

products[4] = new Product("Jeans", "Clothing", 1800);

Console.WriteLine("Welcome to our mini E-Commerce Search!");

Console.WriteLine("Available categories: Electronics, Clothing, Footwear");

Console.Write("Enter a category to search: ");

string? searchCategory = Console.ReadLine();

if (string.IsNullOrWhiteSpace(searchCategory))

{

Console.WriteLine("You didn't enter a valid category.");

return;

}

Console.WriteLine("\nProducts in category: " + searchCategory);

int count = 0;

for (int i = 0; i < products.Length; i++)

{

if (products[i].category.ToLower() == searchCategory.ToLower())

{

Console.WriteLine("- " + products[i].name + " : ₹" + products[i].price);

count++;

}

}

if (count == 0)

{

Console.WriteLine("No products found in this category.");

}

else

{

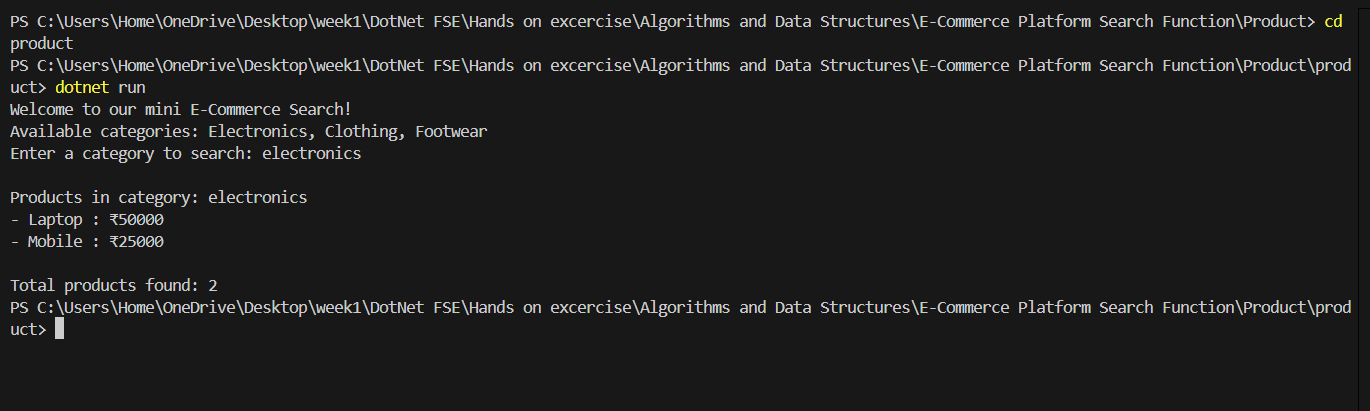
Console.WriteLine("\nTotal products found: " + count);

}

}

}

**Output:**

****