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using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace Set_of_product_details
{
    class Program
    {
        static void Main(string[] args)
        {
            //list of Products
            List<Product> listProducts = new List<Product>();
            //user choice
            int ch = -1;
            while (ch != 6)
            {
                ch = -1;
                while (ch < 1 || ch > 6)
                {
                    //show menu
                    Console.WriteLine("1 - Add product");
                    Console.WriteLine("2 - Change units in stock and price of a product by
id");

                    Console.WriteLine("3 - Delete product by id");
                    Console.WriteLine("4 - View all the products");
                    Console.WriteLine("5 - Search products whose price above a specified
value");

                    Console.WriteLine("6 - Exit");
                    Console.Write("Your choice: ");
                    //read data from file
                    ch = int.Parse(Console.ReadLine());
                    switch (ch) {
                        case 1:
                            //create new product
                            Product newProduct = new Product();
                            Console.Write("Enter product ID: ");
                            //read Id from keyboard
                            newProduct.Id = Console.ReadLine();
                            Console.Write("Enter product Name: ");
                            //read Name from keyboard
                            newProduct.Name = Console.ReadLine();
                            Console.Write("Enter product Units In Stock: ");
                            //read UnitsInStock from keyboard
                            newProduct.UnitsInStock =int.Parse(Console.ReadLine());
                            Console.Write("Enter product Price: ");
                            //read Price from keyboard
                            newProduct.Price =double.Parse(Console.ReadLine());
                            //add new product to list
                            listProducts.Add(newProduct);
                            //show message that New product has been added to list
                            Console.WriteLine("\nNew product has been added to list!!!\n");
                            break;
                        case 2:
                            //search by id
                            Console.Write("Enter product ID: ");
                            //read product id
                            string productId = Console.ReadLine();
                            int index=-1;
                            //search products with such id
                            for (int i = 0; i < listProducts.Count; i++) {

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        if (productId.Equals(listProducts[i].Id)) {
            index = i;
            break;
        }
    }
    //if no products show message No such product
    if (index == -1)
    {
        Console.WriteLine("\nNo such product!!!\n");
    }
    else
    {
        //Change units in stock and price of a product by id
        newProduct = new Product();
        //set old id and Name of product
        newProduct.Id = listProducts[index].Id;
        newProduct.Name = listProducts[index].Name;

        Console.Write("Enter product Units In Stock: ");
        //read Units In Stock from keyboard
        newProduct.UnitsInStock = int.Parse(Console.ReadLine());
        Console.Write("Enter product Price: ");
        //read price from keyboard
        newProduct.Price = double.Parse(Console.ReadLine());
        //remove old information about product
        listProducts.RemoveAt(index);
        //add new information about product
        listProducts.Insert(index, newProduct);
    }
    break;
case 3:
    Console.Write("Enter product ID: ");
    //read product id
    productId = Console.ReadLine();
    index = -1;
    //search product by id
    for (int i = 0; i < listProducts.Count; i++)
    {
        if (productId.Equals(listProducts[i].Id))
        {
            index = i;
            break;
        }
    }

    //if no products show message No such product
    if (index == -1)
    {
        Console.WriteLine("\nNo such product!!!\n");
    }
    else {
        //Remove product from list
        listProducts.RemoveAt(index);
        Console.WriteLine("\nThis product has been removed from
list!!!\n");
    }
    break;
case 4:
    //show name of column
    Console.WriteLine("ID\tName\tUnits In Stock\tPrice");
    Console.WriteLine("-----");

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    public string Id
    {
        get { return id; }
        set { id = value; }
    }
    public string Name
    {
        get { return name; }
        set { name = value; }
    }
    public int UnitsInStock
    {
        get { return unitsInStock; }
        set { unitsInStock = value; }
    }
    public double Price
    {
        get { return price; }
        set { price = value; }
    }
    /// <summary>
    /// Return information about product
    /// </summary>
    /// <returns></returns>
    public override string ToString()
    {
        return id + "\t" + name + "\t\t" + unitsInStock.ToString() + "\t" +
price.ToString() ;
    }
}

```

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file:///E:/Assignment Expert/Visual Studio 2010/Set of product details/Set of pr... - [X]
1 - Add product
2 - Change units in stock and price of a product by id
3 - Delete product by id
4 - View all the products
5 - Search products whose price above a specified value
6 - Exit
Your choice: 1
Enter product ID: as
Enter product Name: 5ads
Enter product Units In Stock: 3
Enter product Price: 600

New product has been added to list!!!

1 - Add product
2 - Change units in stock and price of a product by id
3 - Delete product by id
4 - View all the products
5 - Search products whose price above a specified value
6 - Exit
Your choice: 1
Enter product ID: asdas
Enter product Name: sads
Enter product Units In Stock: 6
Enter product Price: 90

New product has been added to list!!!

1 - Add product
2 - Change units in stock and price of a product by id
3 - Delete product by id
4 - View all the products
5 - Search products whose price above a specified value
6 - Exit
Your choice: 1
Enter product ID: asd
Enter product Name: asdas
Enter product Units In Stock: 6
Enter product Price: 900

New product has been added to list!!!

1 - Add product
2 - Change units in stock and price of a product by id
3 - Delete product by id
4 - View all the products
5 - Search products whose price above a specified value
6 - Exit
Your choice: 5
Enter product Price: 100
ID      Name      Units In Stock  Price
-----
as      5ads      3              600
asd     asdas     6              900
1 - Add product
2 - Change units in stock and price of a product by id
3 - Delete product by id
```