

Develop an application sub system that allows the Managing the Products in a Product Store. You should be able to Add/Update a product detail as well as View the product details. Use the File System as your Data store and file path specified in the properties file.

Code:

```
package SAHANA_221047012;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.time.LocalDateTime;
import java.util.Properties;
import java.util.Scanner;

interface Ecomm
{
    void adding();
    void displaying();
    void updating();
}

class Ecommstore implements Ecomm
{
    public void adding()
    {
        LocalDateTime i;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the ID of the product");
        String id=sc.nextLine();
        System.out.println("Enter the product to be added");
        String text=sc.nextLine();
        System.out.println("Enter the price of the product");
        String text1=sc.nextLine();
        System.out.println("Enter the Quantities to be added ");
        String text2=sc.nextLine();
        try
        {
            FileReader reader=new
FileReader("C:\\Users\\User\\IdeaProjects\\Ecommerce\\src\\SAHANA_221047012\\db.properties");
            Properties p=new Properties();
            p.load(reader);
            String path=p.getProperty("DESTINATION");
            System.out.println(p.getProperty("DESTINATION"));
            FileWriter F1 = new FileWriter(path, true);
            i=java.time.LocalDateTime.now();
            F1.write(i.toString());
            F1.write("\n");
            F1.write(" ID | Product | Price | Quantity | ");
            F1.write("\n");
            F1.write(" "+id+" "+text+" "+" "+text1+" "+" "+text2+" ");
            F1.write("\n");
        }
        catch (IOException e)
        {
            e.printStackTrace();
        }
    }
}
```

```

        F1.write(".....");
        F1.write("\n");
        System.out.println("Data inserted successfully");
        F1.close();
    } catch (IOException e)
    {
        e.printStackTrace();
    }
    System.out.println("Do u want to add another product if Yes select 1 to view select 2");
    int n=sc.nextInt();
    if(n==1) {
        adding();
    }
}
public void displaying()
{
    try
    {
        FileReader reader=new
FileReader("C:\\Users\\User\\IdeaProjects\\Ecommerce\\src\\SAHANA_221047012\\db.properties");
        Properties p1=new Properties();
        try
        {
            p1.load(reader);
        } catch (IOException e1)
        {
            e1.printStackTrace();
        }
        String path=p1.getProperty("DESTINATION");
        FileReader fr = new FileReader(path);
        int i;
        try {
            while ((i = fr.read()) != -1)

                // Print all the content of a file
                System.out.print((char)i);
        } catch (IOException e) {
            e.printStackTrace();
        }
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    }
}
public void updating()
{
    FileReader reader = null;
    try {
        reader = new
FileReader("C:\\Users\\User\\IdeaProjects\\Ecommerce\\src\\SAHANA_221047012\\db.properties");
    } catch (FileNotFoundException e2) {
        e2.printStackTrace();
    }
    Properties p2=new Properties();
    try {
        p2.load(reader);

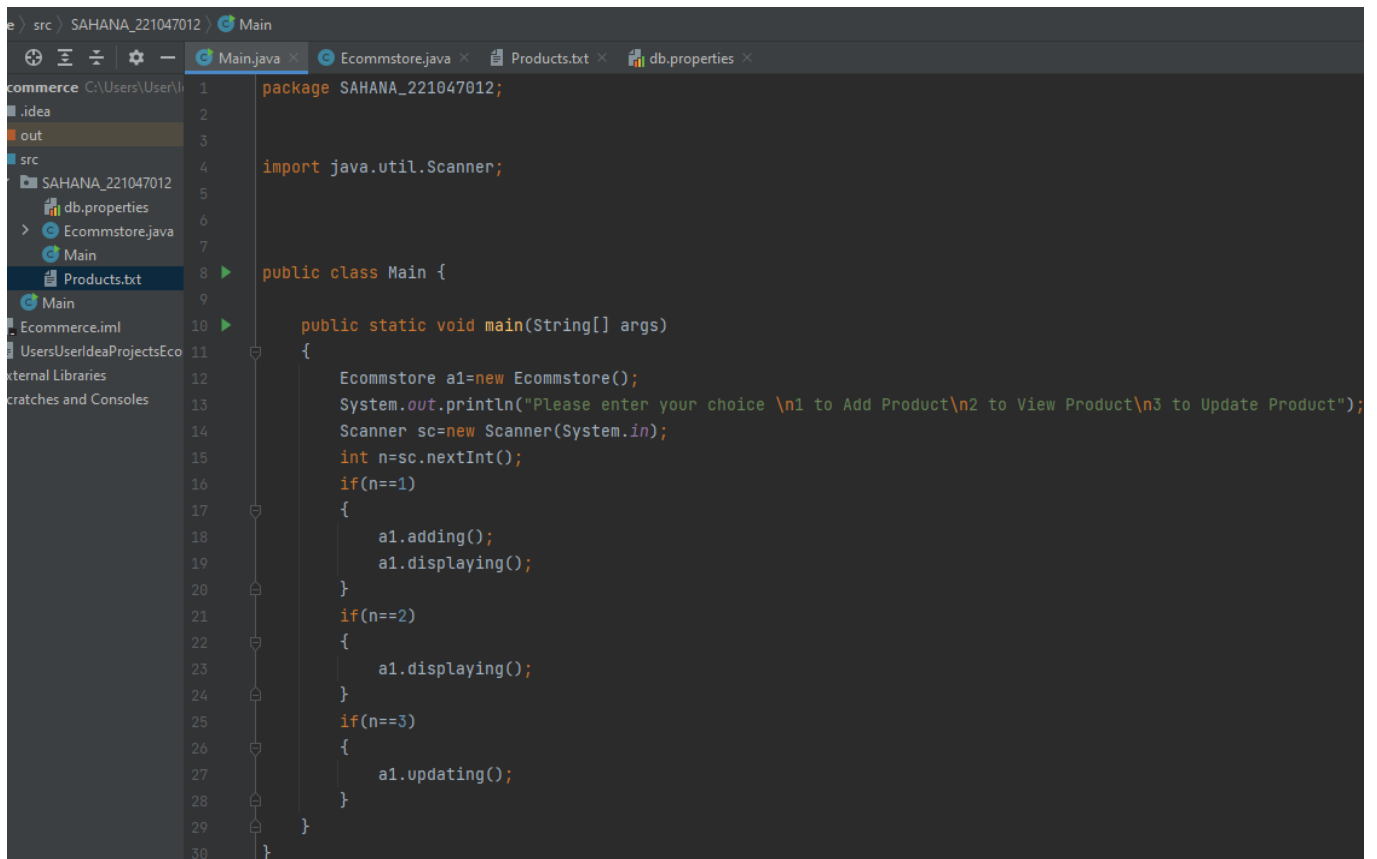
```

```

    } catch (IOException e2) {
        e2.printStackTrace();
    }
    String path=p2.getProperty("DESTINATION");
    String filePath = path;
    Scanner sc = null;
    try {
        sc = new Scanner(new File(filePath));
    } catch (FileNotFoundException e1) {
        e1.printStackTrace();
    }
    StringBuffer buffer = new StringBuffer();
    while (sc.hasNextLine()) {
        buffer.append(sc.nextLine()+System.lineSeparator());
    }
    String fileContents = buffer.toString();
    System.out.println(fileContents);
    sc.close();
    Scanner update=new Scanner(System.in);
    System.out.println("Enter the product Name to be changed");
    String oldLine = update.nextLine();
    System.out.println("Enter the new product name ");
    String newLine = update.nextLine();
    fileContents = fileContents.replaceAll(oldLine, newLine);
    FileWriter writer = null;
    try {
        writer = new FileWriter(filePath);
    } catch (IOException e) {
        e.printStackTrace();
    }
    System.out.println("");
    System.out.println("new data: "+fileContents);
    try {
        writer.append(fileContents);
    } catch (IOException e) {
        e.printStackTrace();
    }
    try {
        writer.flush();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
}

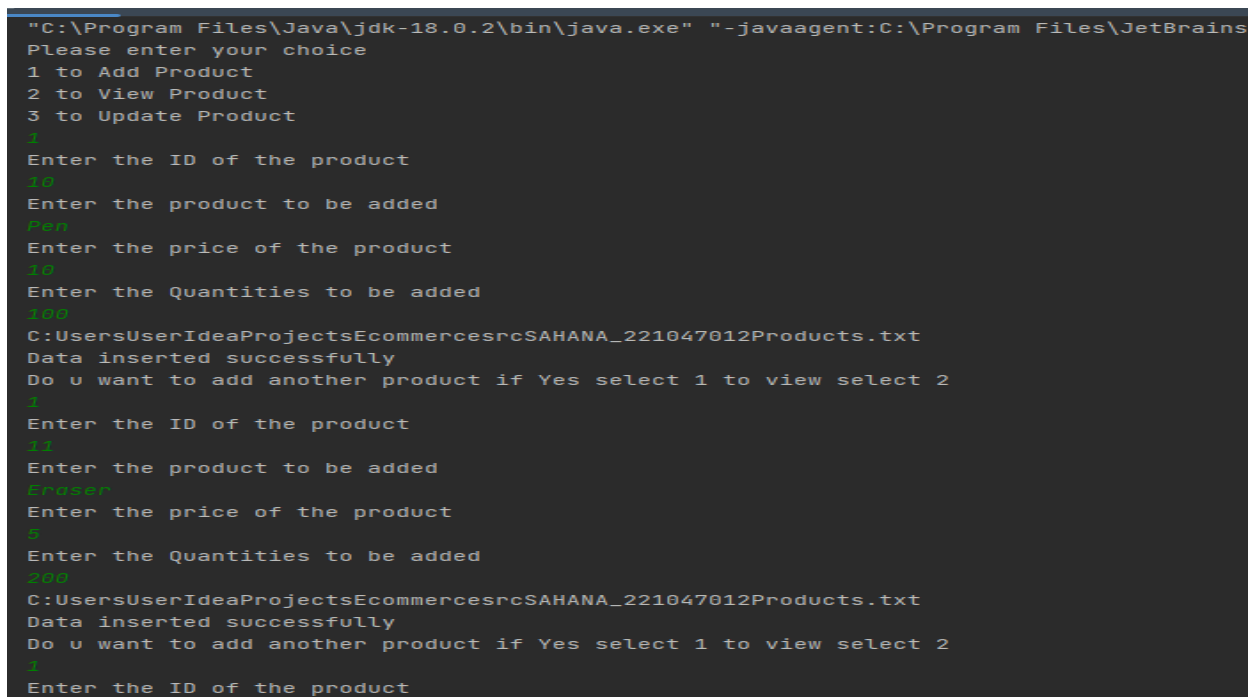
```

Main method:



```
1 package SAHANA_221047012;
2
3
4 import java.util.Scanner;
5
6
7
8 public class Main {
9
10     public static void main(String[] args)
11     {
12         Ecommstore a1=new Ecommstore();
13         System.out.println("Please enter your choice \n1 to Add Product\n2 to View Product\n3 to Update Product");
14         Scanner sc=new Scanner(System.in);
15         int n=sc.nextInt();
16         if(n==1)
17         {
18             a1.adding();
19             a1.displaying();
20         }
21         if(n==2)
22         {
23             a1.displaying();
24         }
25         if(n==3)
26         {
27             a1.updating();
28         }
29     }
30 }
```

Terminal output:



```
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains
Please enter your choice
1 to Add Product
2 to View Product
3 to Update Product
1
Enter the ID of the product
10
Enter the product to be added
Pen
Enter the price of the product
10
Enter the Quantities to be added
100
C:\Users\UserIdea\Projects\Ecommerce\src\SAHANA_221047012\Products.txt
Data inserted successfully
Do u want to add another product if Yes select 1 to view select 2
1
Enter the ID of the product
11
Enter the product to be added
Eraser
Enter the price of the product
5
Enter the Quantities to be added
200
C:\Users\UserIdea\Projects\Ecommerce\src\SAHANA_221047012\Products.txt
Data inserted successfully
Do u want to add another product if Yes select 1 to view select 2
1
Enter the ID of the product
```

```

C:\Users\UserIdea\Projects\Ecommerce\src\SAHANA_221047012\Products.txt
Data inserted successfully
Do u want to add another product if Yes select 1 to view select 2
1
Enter the ID of the product
12
Enter the product to be added
Pencil
Enter the price of the product
10
Enter the Quantities to be added
300
C:\Users\UserIdea\Projects\Ecommerce\src\SAHANA_221047012\Products.txt
Data inserted successfully
Do u want to add another product if Yes select 1 to view select 2
2
18:44:04.604278400
  ID | Product | Price | Quantity |
  10 | Pen     | 10    | 100      |
.....
18:44:45.003640800
  ID | Product | Price | Quantity |
  11 | Eraser  | 5     | 200      |
.....
18:45:18.347965500
  ID | Product | Price | Quantity |
  12 | Pencil  | 10    | 300      |
.....

```

```


3 to Update Product
3
18:44:04.604278400
  ID | Product | Price | Quantity |
  10 | Pen     | 10    | 100      |
.....
18:44:45.003640800
  ID | Product | Price | Quantity |
  11 | Eraser  | 5     | 200      |
.....
18:45:18.347965500
  ID | Product | Price | Quantity |
  12 | Pencil  | 10    | 300      |
.....

Enter the product Name to be changed
Eraser
Enter the new product name
Books

new data: 18:44:04.604278400
  ID | Product | Price | Quantity |
  10 | Pen     | 10    | 100      |
.....
18:44:45.003640800
  ID | Product | Price | Quantity |
  11 | Books   | 5     | 200      |
.....
18:45:18.347965500
  ID | Product | Price | Quantity |
  12 | Pencil  | 10    | 300      |
.....

```

Output:

 Users\UserIdea\Projects\Ecommerce\src\SAHANA_221047012\Products - Notepad

File Edit Format View Help

```

18:44:04.604278400
  ID | Product | Price | Quantity |
  10 | Pen     | 10    | 100      |
.....
18:44:45.003640800
  ID | Product | Price | Quantity |
  11 | Books   | 5     | 200      |
.....
18:45:18.347965500
  ID | Product | Price | Quantity |
  12 | Pencil  | 10    | 300      |
.....

```