```java
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;

class Products {
    private ArrayList<String>
        productList;

    public Products() {
        this.productList = new
            ArrayList<>();
    }

    public ArrayList<String>
        getProductList() {
        return productList;
    }

    public void addProductToList
        (String product) {
        productList.add(product);
    }

    public void sortProductList() {
        Collections.sort
            (productList);
```

Run

7:22

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Main.java   Output   ▷

```java
21              Collections.sort
                    (productList);
22          }
23  }
24
25 ▾ public class UserInterface {
26 ▾      public static void main
                (String[] args) {
27          Scanner scanner = new
                    Scanner(System.in);
28          Products products = new
                    Products();
29
30 ▾          while (true) {
31                  System.out.println("1
                        .Add\n2.Display\n3
                        .Exit");
32                  System.out.println
                        ("Enter your
                        choice");
33                  int choice = scanner
                        .nextInt();
34
35 ▾              switch (choice) {
36                      case 1:
37                          System.out
```

Run

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Main.java   Output   ▷

```java
37              System.out
        .println("Enter
        the product");
38          scanner
        .nextLine(); //
        Consume newline
39          String product
        = scanner.nextLine
        ();
40          products
        .addProductToList
        (product);
41          break;
42      case 2:
43          ArrayList
        <String>
        productList =
        products
        .getProductList();
44 ▾       if (productList
        .isEmpty()) {
45              System.out
        .println("The list
        is empty")   Run
46 ▾       } else {
```

```java
                   products
.sortProductList
();
        for (String
item : productList
) {
            System
.out.println(item
);
        }
    }
    break;
case 3:
    System.out
.println("Thank
you for using the
application");
    scanner.close
();
    return;
default:
    System.out
.println("Invalid
choice. Please
enter a val
option (1-3).  );
```

Run

```java
        ) {
49                      System
        .out.println(item
        );
50                  }
51              }
52          break;
53      case 3:
54          System.out
        .println("Thank
        you for using the
        application");
55          scanner.close
        ();
56          return;
57      default:
58          System.out
        .println("Invalid
        choice. Please
        enter a valid
        option (1-3).");
59              }
60          }
61      }
62  }
63
```

Run

Main.java | Output

```
java -cp /tmp/z5OshR5LWj/UserInterface
1.Add
2.Display
3.Exit
Enter your choice
3
Thank you for using the application

=== Code Execution Successful ===
```