

File Edit Selection View Go Run ... ← → cognizant

EXPLORER

OPEN EDITORS

- CustomerOrderSorter.java

COGNIZANT

- CustomerOrderSorter.class
- CustomerOrderSorter.java
- CustomerOrderSorter\$Order.class
- ECommerceSearch.class
- ECommerceSearch.java
- ECommerceSearch\$Product.class
- Employee.class
- EmployeeManagementSystem.class
- EmployeeManagementSystem.java
- FinancialForecasting.java
- LibraryManagementSystem.java
- Product.class
- Task.class
- TaskList.class
- TaskManagementSystem.class
- TaskManagementSystem.java
- TaskNode.class

OUTLINE

TIMELINE

PROJECTS

RUN CONFIGURATION

JAVA PROJECTS

CustomerOrderSorter.java > Language Support for Java(TM) by Red Hat > CustomerOrderSorter > bubbleSort(Order[])

```
1 public class CustomerOrderSorter {
2     static class Order {
3         int orderId;
4         String customerName;
5         double totalPrice;
6
7         Order(int orderId, String customerName, double totalPrice) {
8             this.orderId = orderId;
9             this.customerName = customerName;
10            this.totalPrice = totalPrice;
11        }
12
13        @Override
14        public String toString() {
15            return "Order ID: " + orderId +
16                ", Customer: " + customerName +
17                ", Total Price: Rs." + String.format(format:"%.2f", totalPrice);
18        }
19    }
20    static void bubbleSort(Order[] orders) {
21        int n = orders.length;
22        for (int i = 0; i < n - 1; i++) {
23            for (int j = 0; j < n - i - 1; j++) {
24                if (orders[j].totalPrice > orders[j + 1].totalPrice) {
25                    Order temp = orders[j];
26                    orders[j] = orders[j + 1];
27                    orders[j + 1] = temp;
28                }
29            }
30        }
31    }
32 }
```

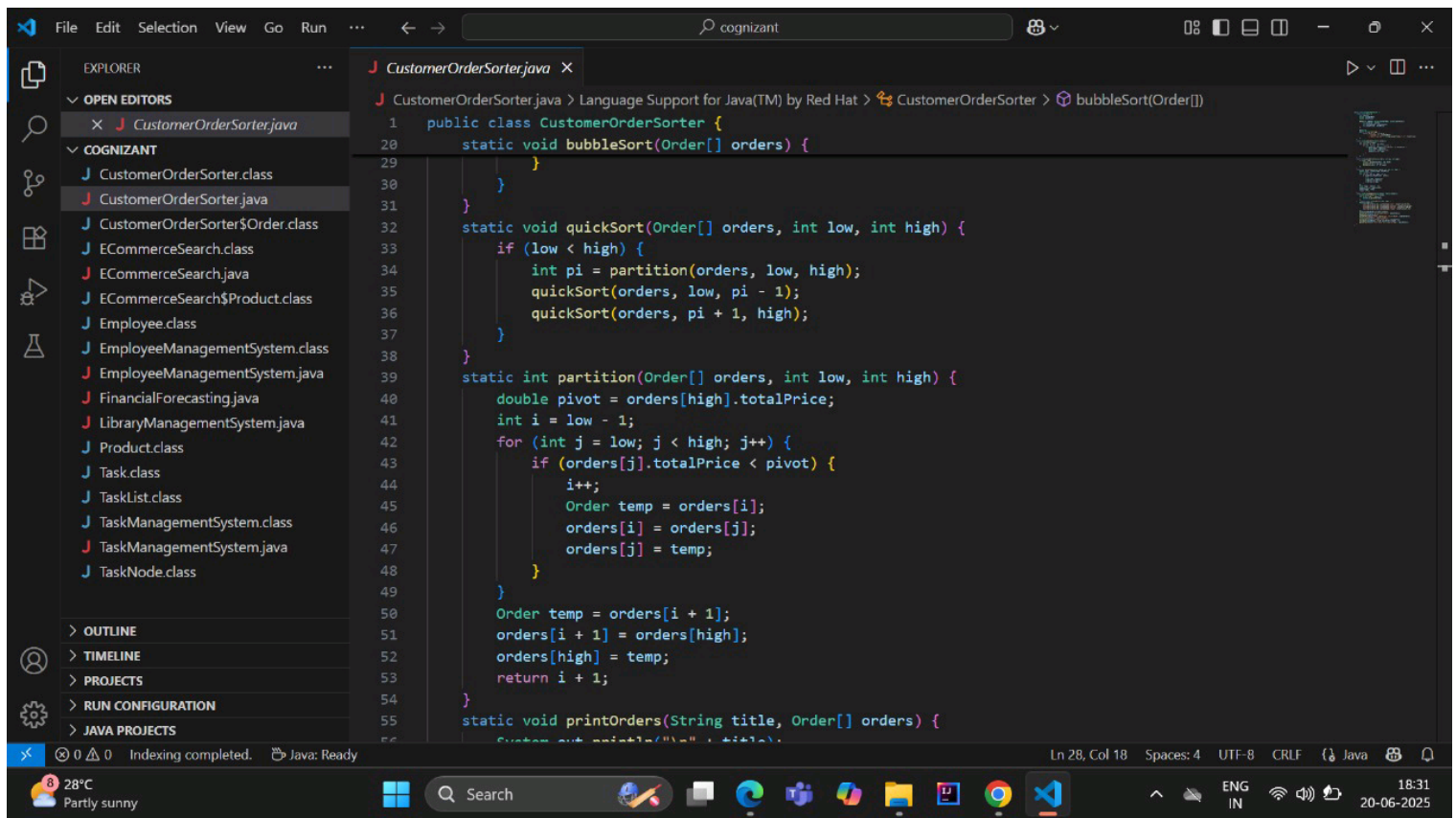
Ln 28, Col 18 Spaces: 4 UTF-8 CRLF Java

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Search

ENG IN

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```
CustomerOrderSorter.java > Language Support for Java(TM) by Red Hat > CustomerOrderSorter > bubbleSort(Order[])
1  public class CustomerOrderSorter {
20     static void bubbleSort(Order[] orders) {
29         }
30     }
31 }
32 static void quickSort(Order[] orders, int low, int high) {
33     if (low < high) {
34         int pi = partition(orders, low, high);
35         quickSort(orders, low, pi - 1);
36         quickSort(orders, pi + 1, high);
37     }
38 }
39 static int partition(Order[] orders, int low, int high) {
40     double pivot = orders[high].totalPrice;
41     int i = low - 1;
42     for (int j = low; j < high; j++) {
43         if (orders[j].totalPrice < pivot) {
44             i++;
45             Order temp = orders[i];
46             orders[i] = orders[j];
47             orders[j] = temp;
48         }
49     }
50     Order temp = orders[i + 1];
51     orders[i + 1] = orders[high];
52     orders[high] = temp;
53     return i + 1;
54 }
55 static void printOrders(String title, Order[] orders) {
56     System.out.println(title + "\n");
57 }
```

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PROJECTS

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JAVA PROJECTS

CustomerOrderSorter.java

```
1 public class CustomerOrderSorter {
55     static void printOrders(String title, Order[] orders) {
56         System.out.println("\n" + title);
57         for (Order order : orders) {
58             System.out.println(order);
59         }
60     }
61     public static void main(String[] args) {
62         Order[] orders = {
63             new Order(orderId:101, customerName:"Amit", totalPrice:299.99),
64             new Order(orderId:102, customerName:"Bhavana", totalPrice:199.50),
65             new Order(orderId:103, customerName:"Chirag", totalPrice:549.00),
66             new Order(orderId:104, customerName:"Deepa", totalPrice:375.75)
67         };
68         Order[] bubbleOrders = orders.clone();
69         printOrders(title:"Before Bubble Sort", bubbleOrders);
70         bubbleSort(bubbleOrders);
71         printOrders(title:"After Bubble Sort (Low to High)", bubbleOrders);
72         Order[] quickOrders = orders.clone();
73         printOrders(title:"\nBefore Quick Sort", quickOrders);
74         quickSort(quickOrders, low:0, quickOrders.length - 1);
75         printOrders(title:"After Quick Sort (Low to High)", quickOrders);
76     }
77 }
78
79
80
81
```

Run main | Debug main | Run | Debug

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CustomerOrderSorter.java > Language Support for Java(TM) by Red Hat > CustomerOrderSorter > bubbleSort(Order[])

```
1 public class CustomerOrderSorter {
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: CustomerOrderSorter

```
PS C:\cognizant> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\sahan\AppData\Roaming\Code\User\workspaceStorage\5c120c78ee1edadaac7ff33613f965a8\redhat.java\jdt_ws\cognizant_43b6ceb\bin' 'CustomerOrderSorter'
```

Before Bubble Sort

```
Order ID: 101, Customer: Amit, Total Price: Rs.299.99
Order ID: 102, Customer: Bhavana, Total Price: Rs.199.50
Order ID: 103, Customer: Chirag, Total Price: Rs.549.00
Order ID: 104, Customer: Deepa, Total Price: Rs.375.75
```

After Bubble Sort (Low to High)

```
Order ID: 102, Customer: Bhavana, Total Price: Rs.199.50
Order ID: 101, Customer: Amit, Total Price: Rs.299.99
Order ID: 104, Customer: Deepa, Total Price: Rs.375.75
Order ID: 103, Customer: Chirag, Total Price: Rs.549.00
```

Before Quick Sort

```
Order ID: 101, Customer: Amit, Total Price: Rs.299.99
Order ID: 102, Customer: Bhavana, Total Price: Rs.199.50
Order ID: 103, Customer: Chirag, Total Price: Rs.549.00
Order ID: 104, Customer: Deepa, Total Price: Rs.375.75
```

After Quick Sort (Low to High)

```
Order ID: 102, Customer: Bhavana, Total Price: Rs.199.50
Order ID: 101, Customer: Amit, Total Price: Rs.299.99
Order ID: 104, Customer: Deepa, Total Price: Rs.375.75
Order ID: 103, Customer: Chirag, Total Price: Rs.549.00
```

PS C:\cognizant>

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