









The screenshot displays an IDE interface with a project explorer on the left, a code editor in the center, and a terminal at the bottom.

Project Explorer: Lists several Java files including `ECommerceSearch.java`, `Employee.class`, `EmployeeManagementSystem.class`, `FinancialForecasting.java`, `InventoryManagementSystem.java` (selected), `LibraryManagementSystem.java`, `Product.class`, `Task.class`, `TaskList.class`, and `TaskManagementSystem.class`.

Code Editor: Shows a Java class with a `switch` statement and a `while` loop. The code is as follows:

```
100 switch (choice) {
101     case 1 -> addProduct();
102     case 2 -> updateProduct();
103     case 3 -> deleteProduct();
104     case 4 -> displayInventory();
105     case 5 -> System.out.println(x:" Exiting the system. Thank you!");
106     default -> System.out.println(x:"Invalid choice.");
107 }
108 } while (choice != 5);
109 }
110 }
111 }
```

Terminal: Shows the output of the program execution:

```
ID: 30, Name: cake, Quantity: 200, Price: 250.0
--- Inventory Management System ---
1. Add Product
2. Update Product
Enter Product ID to delete: 20
```

The terminal also shows the status of the IDE: "Indexing completed." and "Java: Ready". The bottom status bar indicates the current line and column: "Ln 13, Col 9".

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

EXPLORER

OPEN EDITORS 1 unsaved

- InventoryManagementSystem.java
- CustomerOrderSorter.java
- ECommerceSearch.java

COGNIZANT

- CustomerOrderSorter.class
- CustomerOrderSorter.java
- CustomerOrderSorter\$Order.class
- ECommerceSearch.class
- ECommerceSearch.java
- ECommerceSearch\$Product.class
- Employee.class
- EmployeeManagementSystem.class
- EmployeeManagementSystem.java
- FinancialForecasting.java
- InventoryManagementSystem.java
- LibraryManagementSystem.java 2
- Product.class
- Task.class
- TaskList.class
- TaskManagementSystem.class

OUTLINE

TIMELINE

PROJECTS

RUN CONFIGURATION

JAVA PROJECTS

InventoryManagementSystem.java > Java > Product > Product(int productId, String productName, int quantity, double price)

```
4 class Product {  
12     this.productname = productname;  
13     this.quantity = quantity;  
14     this.price = price;
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: InventoryManagementSystem + ▾ ▢ ... ^ ×

5. Exit
Choose an option: 3
Enter Product ID to delete: 20
Product deleted successfully!

--- Inventory Management System ---
1. Add Product
2. Update Product
3. Delete Product
4. Display Inventory
5. Exit
Choose an option: 4

--- Inventory List ---
ID: 25, Name: biscuit, Quantity: 50, Price: 350.0
ID: 30, Name: cake, Quantity: 200, Price: 250.0

--- Inventory Management System ---
1. Add Product
2. Update Product
3. Delete Product
4. Display Inventory
5. Exit
Choose an option: 5
Exiting the system. Thank you!
PS C:\cognizant>

Ln 13, Col 9 Spaces: 4 UTF-8 CRLF Java

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

EXPLORER

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- InventoryManagementSystem.java
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OUTLINE

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PROJECTS

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JAVA PROJECTS

InventoryManagementSystem.java

```
4 class Product {  
12     this.productName = productName;  
13     this.quantity = quantity;  
14     this.price = price;  
}
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: InventoryManagementSystem

Enter New Quantity: 50
Enter New Price: 350
Product updated successfully!

--- Inventory Management System ---
1. Add Product
2. Update Product
3. Delete Product
4. Display Inventory
5. Exit
Choose an option: 3
Enter Product ID to delete: 20
Product deleted successfully!

--- Inventory Management System ---
1. Add Product
2. Update Product
3. Delete Product
4. Display Inventory
5. Exit
Choose an option: 4

--- Inventory List ---
ID: 25, Name: biscuit, Quantity: 50, Price: 350.0
ID: 30, Name: cake, Quantity: 200, Price: 250.0

Ln 13, Col 9 Spaces: 4 UTF-8 CRLF Java

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Search

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Visual Studio Code interface showing a Java project named "cognizant".

EXPLORER:

- OPEN EDITORS (1 unsaved)
 - InventoryManagementSystem.java
 - CustomerOrderSorter.java
 - ECommerceSearch.java
- COGNIZANT
 - CustomerOrderSorter.class
 - CustomerOrderSorter.java
 - CustomerOrderSorter\$Order.class
 - ECommerceSearch.class
 - ECommerceSearch.java
 - ECommerceSearch\$Product.class
 - Employee.class
 - EmployeeManagementSystem.class
 - EmployeeManagementSystem.java
 - FinancialForecasting.java
 - InventoryManagementSystem.java
 - LibraryManagementSystem.java (2)
 - Product.class
 - Task.class
 - TaskList.class
 - TaskManagementSystem.class
- OUTLINE
- TIMELINE
- PROJECTS
- RUN CONFIGURATION
- JAVA PROJECTS

EDITOR: InventoryManagementSystem.java

```
4 class Product {  
12     this.productname = productname;  
13     this.quantity = quantity;  
14     this.price = price;  
}
```

TERMINAL:

```
Run: InventoryManagementSystem  
  
Enter Product Name: biscut  
Enter Quantity: 150  
Enter Price: 20  
Product added successfully!  
  
--- Inventory Management System ---  
1. Add Product  
2. Update Product  
3. Delete Product  
4. Display Inventory  
5. Exit  
Choose an option: 1  
Enter Product ID: 30  
Enter Product Name: cake  
Enter Quantity: 200  
Enter Price: 250  
Product added successfully!  
  
--- Inventory Management System ---  
1. Add Product  
2. Update Product  
3. Delete Product  
4. Display Inventory  
5. Exit  
Choose an option: 2  
Enter Product ID to update: 25
```

STATUS BAR: Ln 13, Col 9 | Spaces: 4 | UTF-8 | CRLF | Java

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File Edit Selection View Go Run ... cognizant

EXPLORER

OPEN EDITORS 1 unsaved

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COGNIZANT

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OUTLINE

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PROJECTS

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JAVA PROJECTS

InventoryManagementSystem.java

```
4 class Product {
12     this.productName = productName;
13     this.quantity = quantity;
14     this.price = price;
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Run: InventoryManagementSystem

```
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' 'InventoryManagementSystem'
```

```
--- Inventory Management System ---
1. Add Product
2. Update Product
3. Delete Product
4. Display Inventory
5. Exit
Choose an option: 1
Enter Product ID: 20
Enter Product Name: Icecream
Enter Quantity: 100
Enter Price: 50
Product added successfully!

--- Inventory Management System ---
1. Add Product
2. Update Product
3. Delete Product
4. Display Inventory
5. Exit
Choose an option: 1
Enter Product ID: 25
Enter Product Name: biscuit
```

Ln 13, Col 9 Spaces: 4 UTF-8 CRLF Java

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