

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

EXPLORER

OPEN EDITORS

- FactoryMethodPattern.java
- BuilderPatternExample.java 2
- SingletonPattern.java

COGNIZANT

- BuilderPatternExample.java 2
- CustomerOrderSorter.class
- CustomerOrderSorter.java
- CustomerOrderSorter\$Order.class
- ECommerceSearch.class
- ECommerceSearch.java
- ECommerceSearch\$Product.class
- Employee.class
- EmployeeManagementSystem.class
- EmployeeManagementSystem.java
- FactoryMethodPattern.java
- FinancialForecasting.java
- InventoryManagementSystem.java
- LibraryManagementSystem.java 2
- Product.class
- SingletonPattern.java

OUTLINE

TIMELINE

PROJECTS

RUN CONFIGURATION

JAVA PROJECTS

FactoryMethodPattern.java > ...

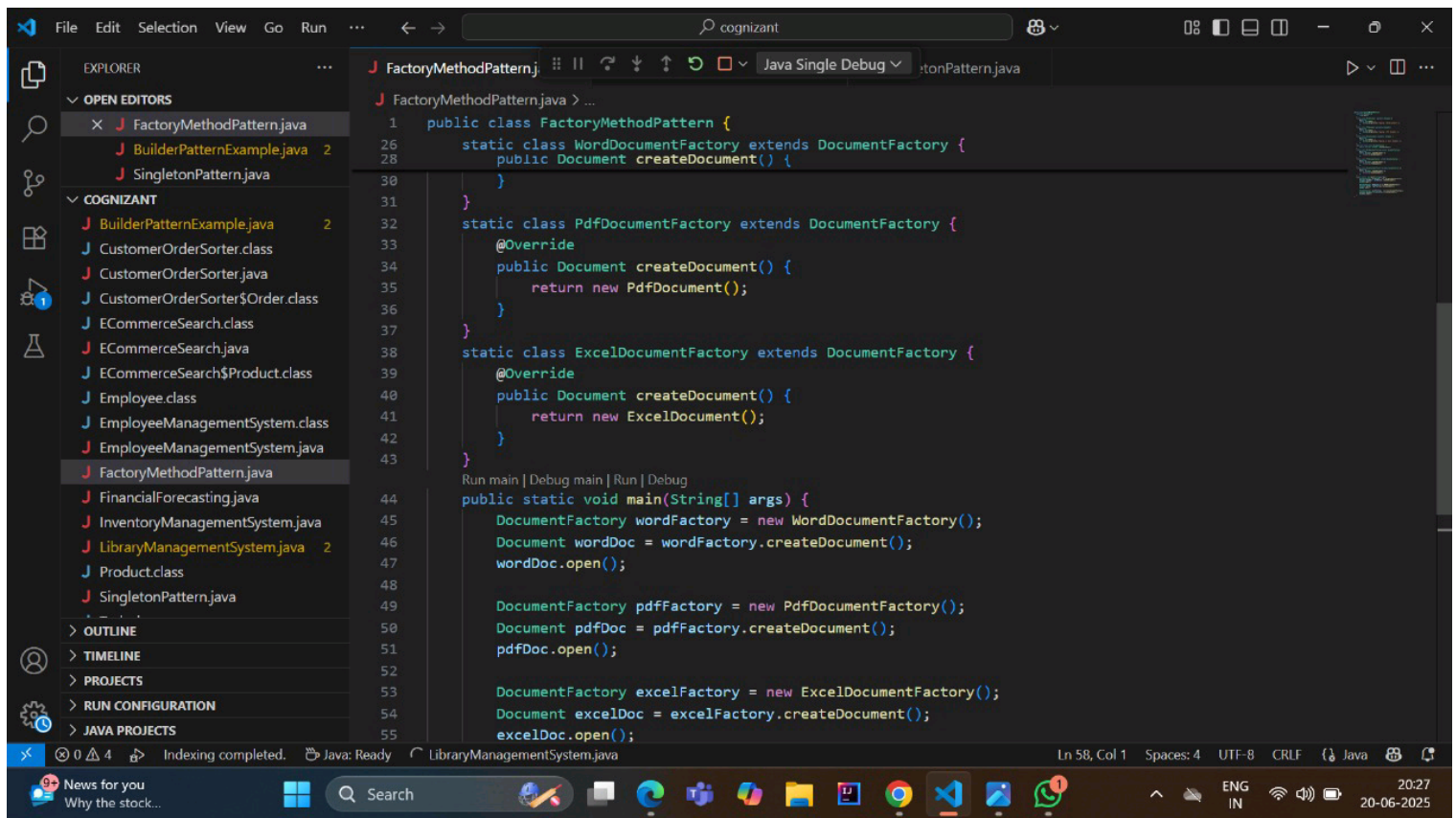
```
1 public class FactoryMethodPattern {
2     interface Document {
3         void open();
4     }
5     static class WordDocument implements Document {
6         @Override
7         public void open() {
8             System.out.println(x:"Opening a Word Document.");
9         }
10    }
11    static class PdfDocument implements Document {
12        @Override
13        public void open() {
14            System.out.println(x:"Opening a PDF Document.");
15        }
16    }
17    static class ExcelDocument implements Document {
18        @Override
19        public void open() {
20            System.out.println(x:"Opening an Excel Document.");
21        }
22    }
23    abstract static class DocumentFactory {
24        public abstract Document createDocument();
25    }
26    static class WordDocumentFactory extends DocumentFactory {
27        @Override
28        public Document createDocument() {
29            return new WordDocument();
30        }
31    }
32 }
```

Ln 58, Col 1 Spaces: 4 UTF-8 CRLF Java

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20:27 20-06-2025



The screenshot displays an IDE window with the following components:

- EXPLORER:** Shows a project named "COGNIZANT" with several Java files. The file "FactoryMethodPattern.java" is selected and highlighted.
- FactoryMethodPattern.java:** The code editor shows the following Java code:

```
1 public class FactoryMethodPattern {
38     static class ExcelDocumentFactory extends DocumentFactory {
40         public Document createDocument() {
42             // ...
43         }
44     }
45     public static void main(String[] args) {
46         DocumentFactory wordFactory = new WordDocumentFactory();
47         Document wordDoc = wordFactory.createDocument();
48         wordDoc.open();
49         DocumentFactory pdfFactory = new PdfDocumentFactory();
50         Document pdfDoc = pdfFactory.createDocument();
51         pdfDoc.open();
52         DocumentFactory excelFactory = new ExcelDocumentFactory();
53         Document excelDoc = excelFactory.createDocument();
54         excelDoc.open();
55     }
}
```
- PROBLEMS / OUTPUT / DEBUG CONSOLE / TERMINAL:** The terminal shows the execution of the program:

```
PS C:\cognizant> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-c
p' 'C:\Users\sahan\AppData\Roaming\Code\User\workspaceStorage\5c120c78ee1edadaac7ff33613f965a8\redhat.java\jdt_ws\cognizant_43b6
ceb\bin' 'FactoryMethodPattern'
Opening a Word Document.
Opening a PDF Document.
Opening an Excel Document.
PS C:\cognizant>
```
- STATUS BAR:** Shows "Ln 50, Col 24", "Spaces: 4", "UTF-8", "CRLF", and "Java".