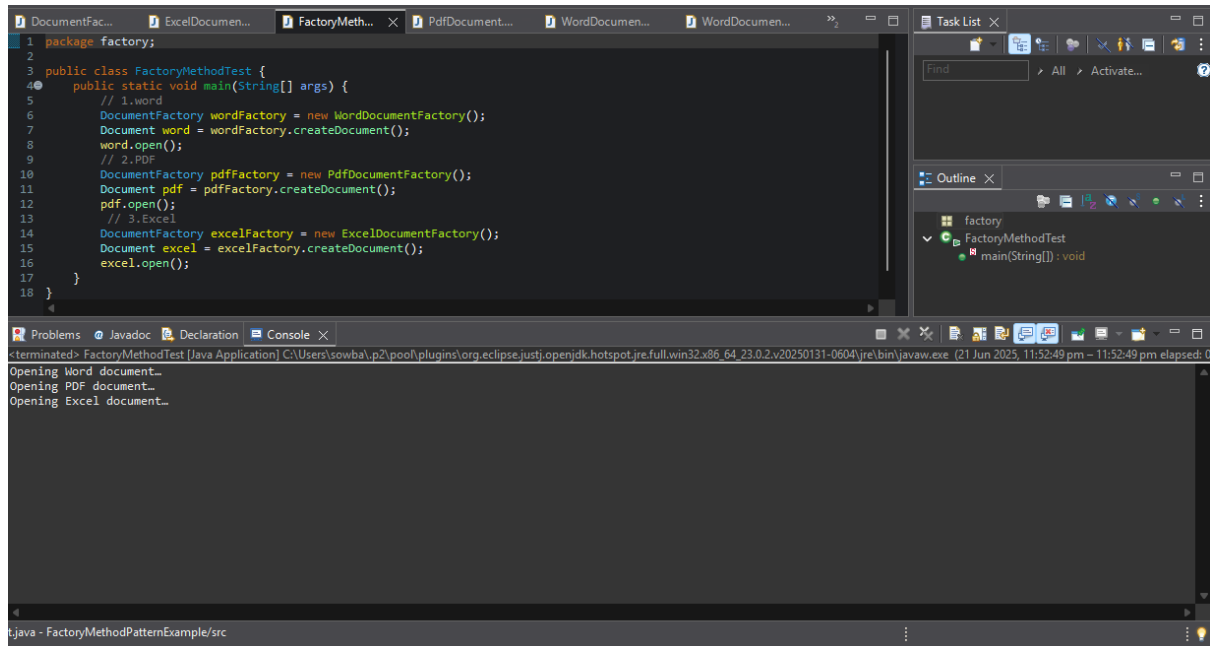


Exercise 2: Implementing the Factory Method Pattern

OUTPUT:



The screenshot displays an IDE with the following components:

- Editor:** Shows the `FactoryMethodTest` class in the `factory` package. The `main` method creates three document factories (`WordDocumentFactory`, `PdfDocumentFactory`, and `ExcelDocumentFactory`) and uses them to create and open documents.
- Outline:** Shows the package structure: `factory` containing `FactoryMethodTest` and its `main(String[])` method.
- Console:** Displays the execution output:

```
<terminated> FactoryMethodTest (Java Application) C:\Users\sowba\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_23.0.2.v20250131-0604\jre\bin\javaw.exe (21 Jun 2025, 11:52:49 pm - 11:52:49 pm elapsed: 0)
Opening Word document...
Opening PDF document...
Opening Excel document...
```

The Factory Method Pattern helps create different document types without modifying existing code. It improves flexibility, maintainability, and supports easy addition of new document types.