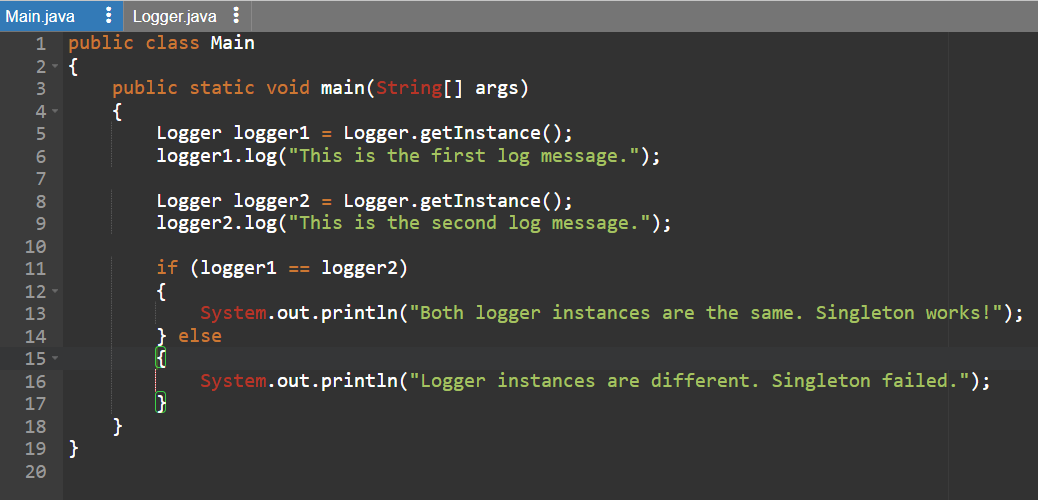
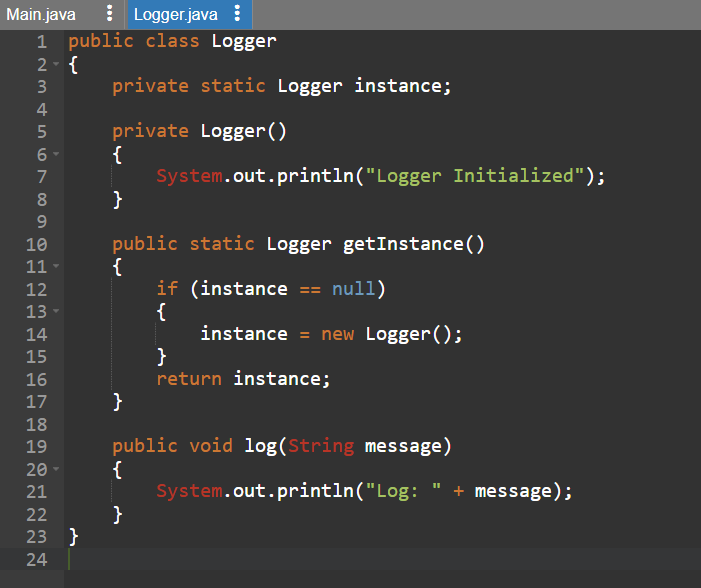
**Exercise 1: Implementing the Singleton Pattern**

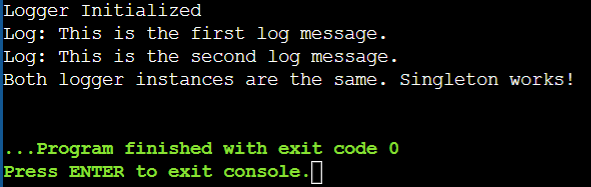
A logging utility class in your application has only one instance throughout the application lifecycle to ensure consistent logging.

***CODE:***

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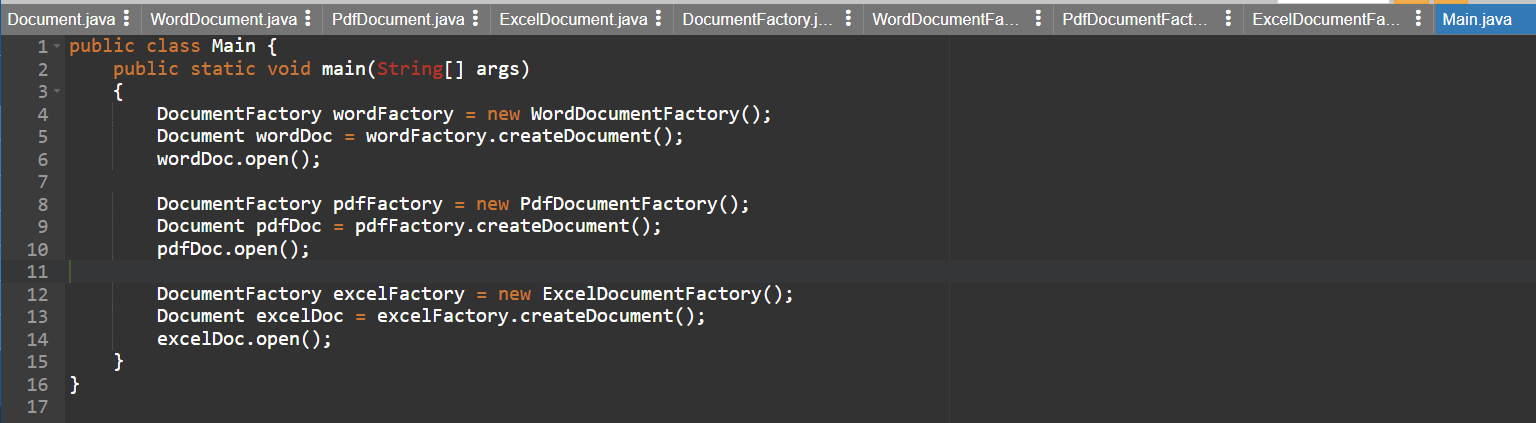
***OUTPUT:***

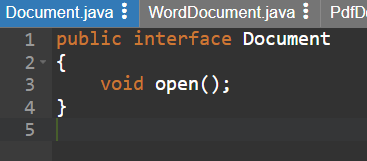
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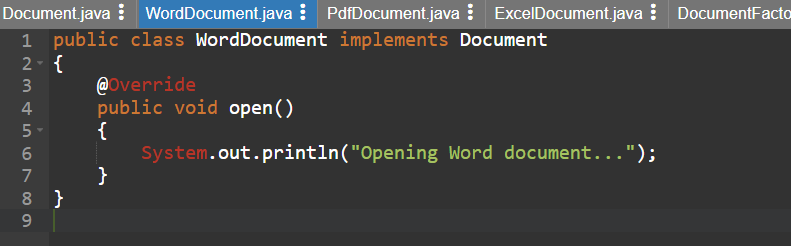
**Exercise 2: Implementing the Factory Method Pattern**

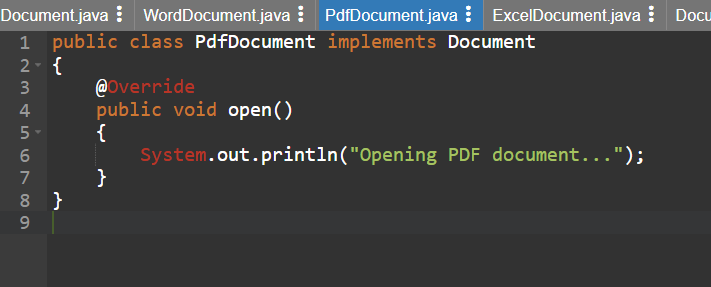
A document management system that creates different types of documents (e.g., Word, PDF, Excel) using the Factory Method Pattern.

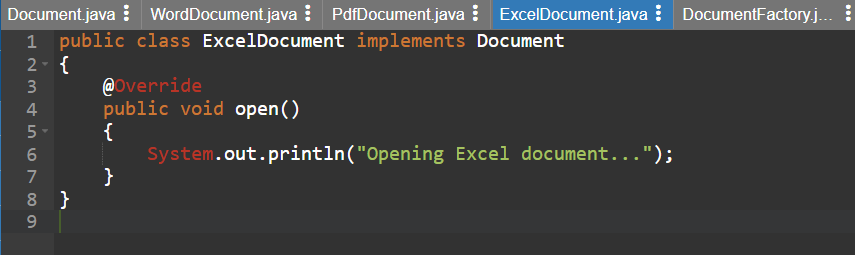
***CODE:***

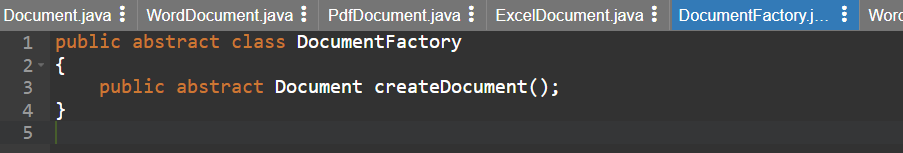
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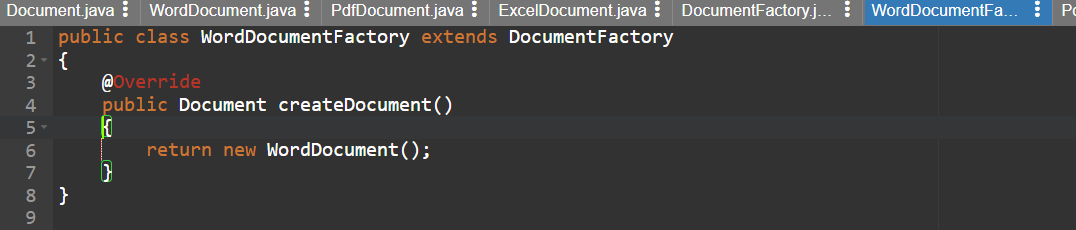
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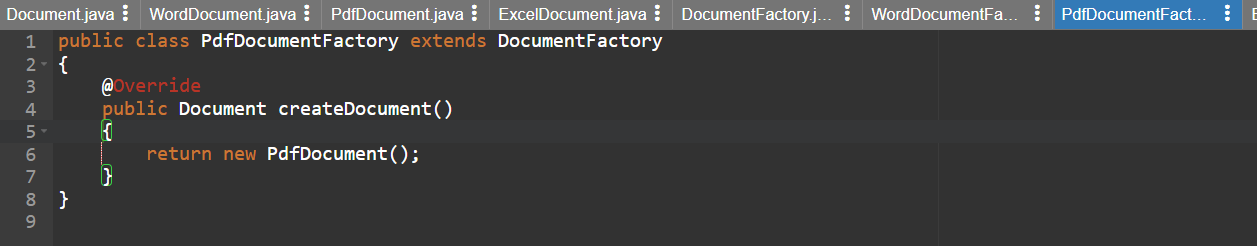
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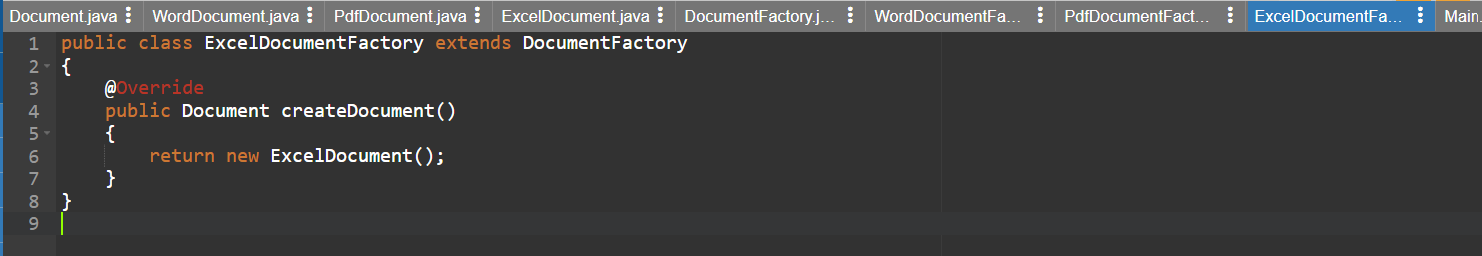
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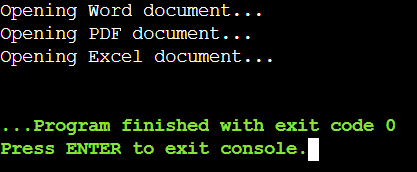
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***OUTPUT:***

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