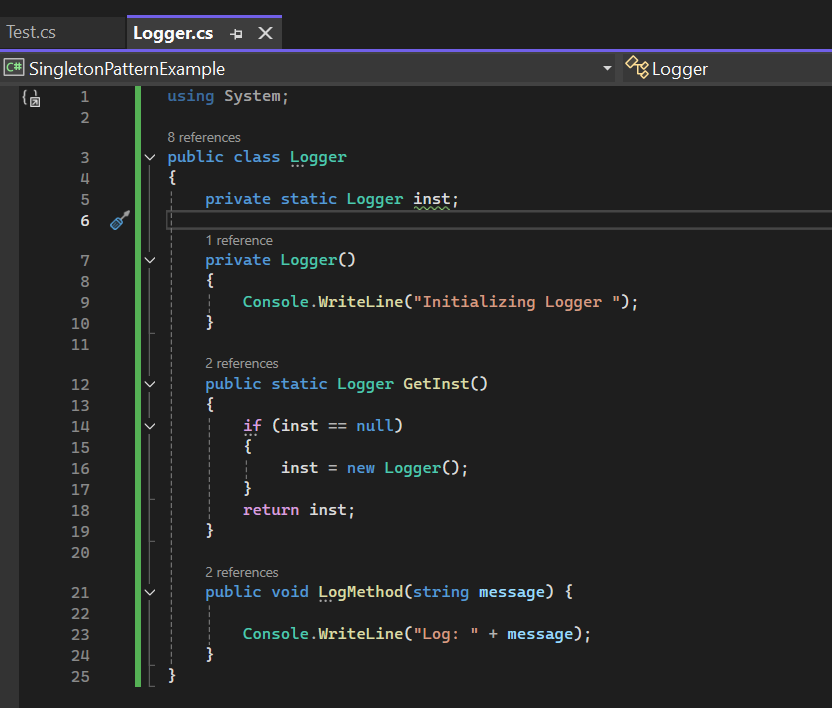
**WEEK 1 MANDATORY HANDS-ON**

**Superset ID: 6365267**

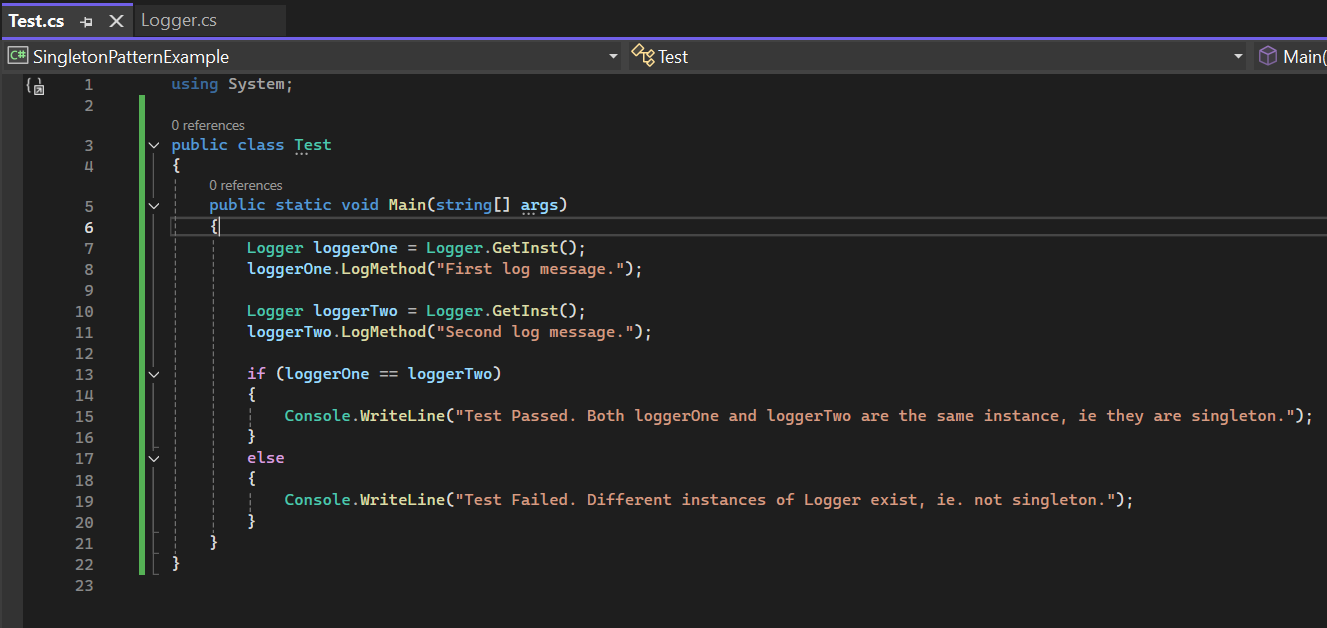
**MODULE 1: DESIGN PATTERNS AND PRINCIPLES**

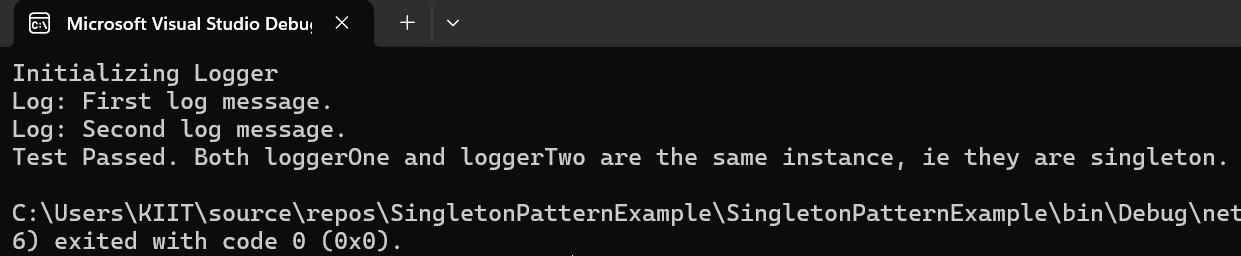
Exercise 1: Implementing the Singleton Pattern

* Logger class



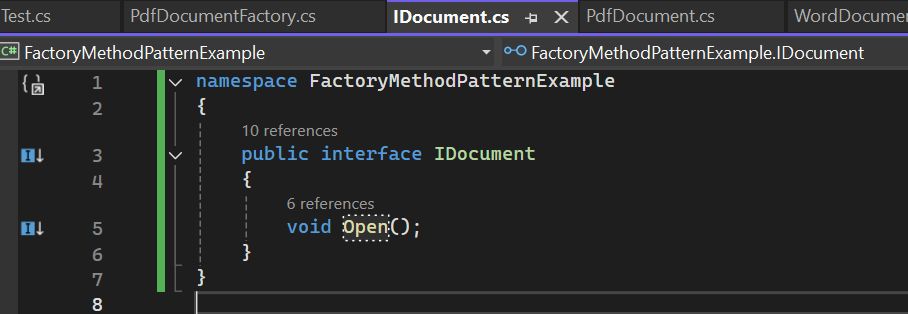
* Test class

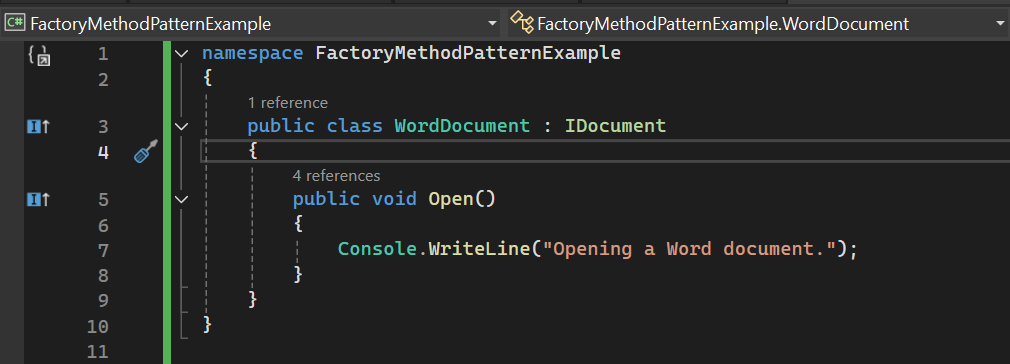
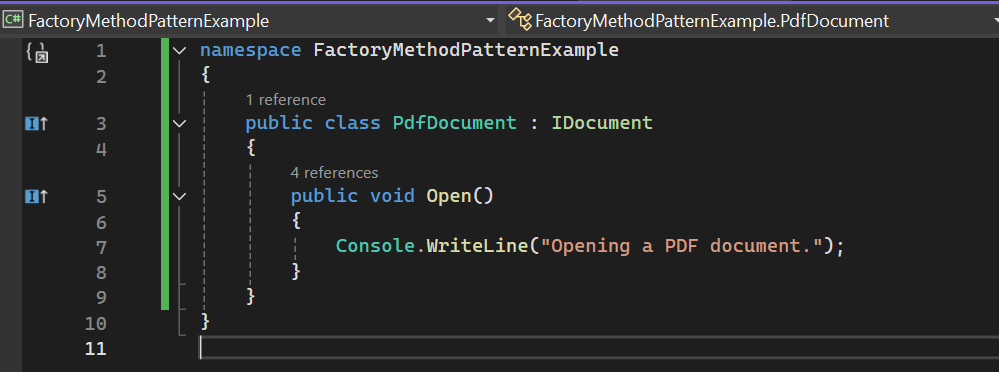
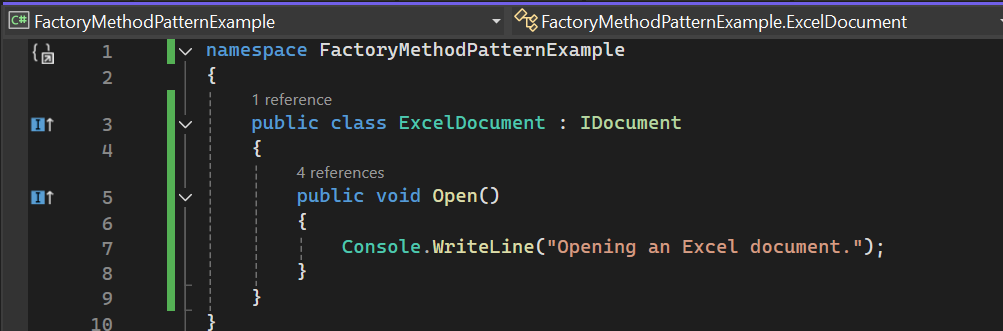


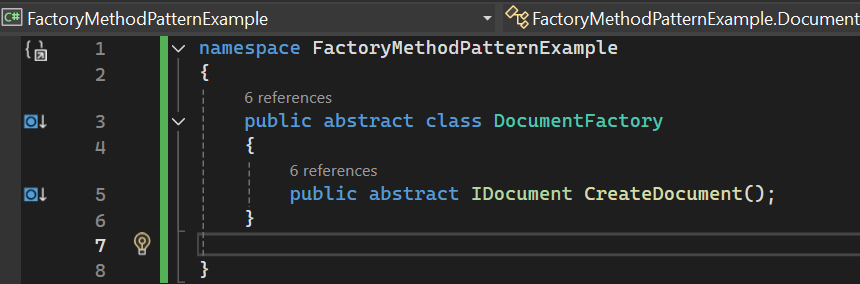
* Output

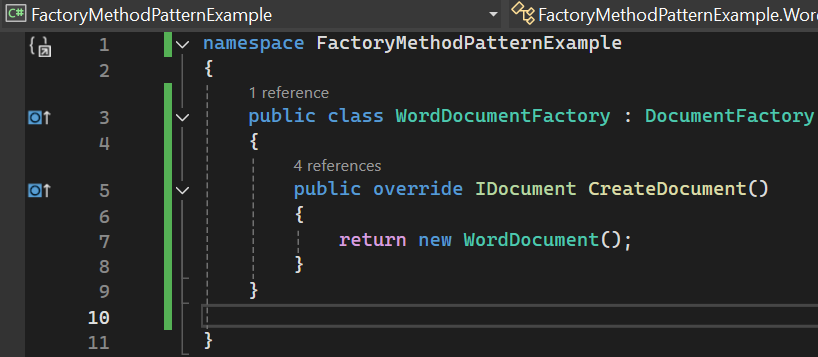
**Exercise 2: Implementing the Factory Method Pattern**

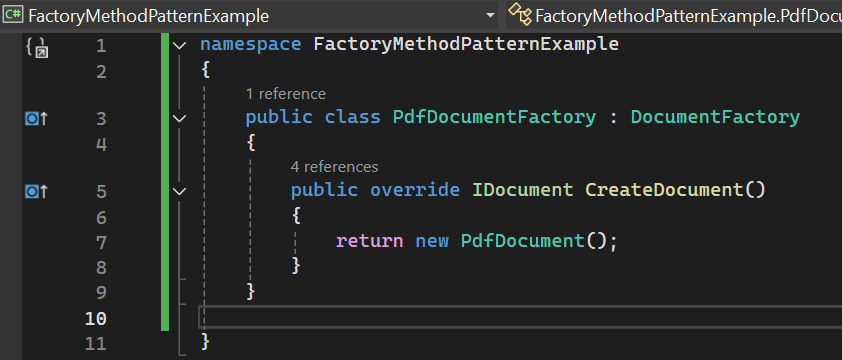
* Define Document interface

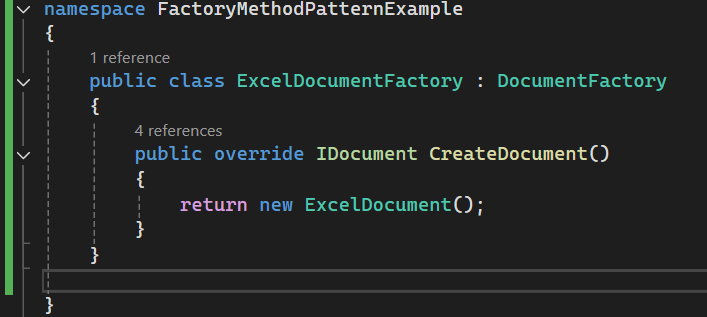
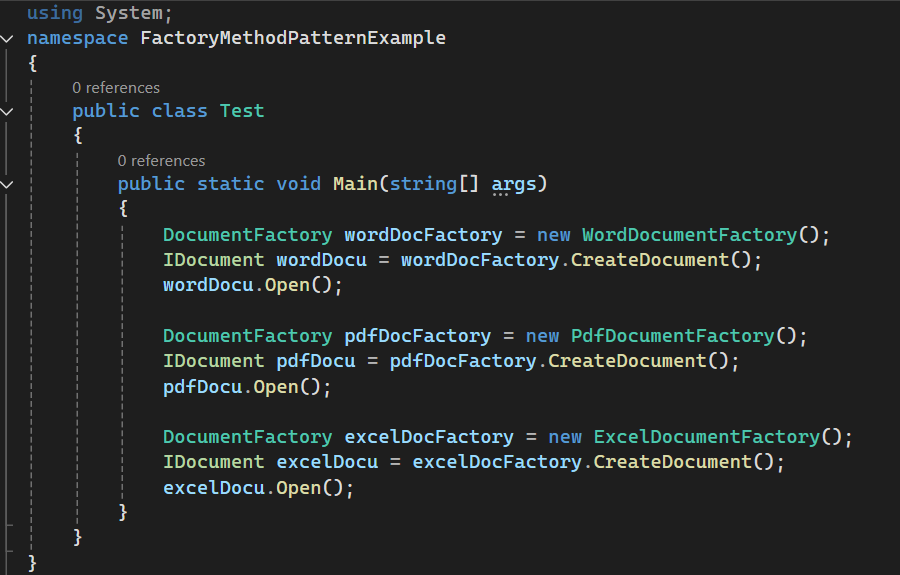
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* Concrete classes for each document type **WordDocument**, **PdfDocument**, and **ExcelDocument,** that implement the Document Interface
* WordDocument
* PdfDocument
* ExcelDocument
* DocumentFactory abstract class



* Concrete factory classes for each document type that extends DocumentFactory and implements the **createDocument()** method:
* WordDocumentFactory
* PdfDocumentFactory



* ExcelDocumentFactory
* Test class
* Output showing different document types using the factory method

