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

Scenario:

You are developing a document management system that needs to create different types of documents (e.g., Word, PDF, Excel). Use the Factory Method Pattern to achieve this.

Steps:

1. Create a New Java Project:

o Create a new Java project named FactoryMethodPatternExample.

2. Define Document Classes:

o Create interfaces or abstract classes for different document types such as WordDocument, PdfDocument, and ExcelDocument.

3. Create Concrete Document Classes:

o Implement concrete classes for each document type that implements or extends the above interfaces or abstract classes.

4. Implement the Factory Method:

o Create an abstract class DocumentFactory with a method createDocument().

o Create concrete factory classes for each document type that extends DocumentFactory and implements the createDocument() method.

5. Test the Factory Method Implementation:

o Create a test class to demonstrate the creation of different document types using the factory method.  
