Implementing the Factory Method Pattern

1. Create a New Java Project:

* A new Java project named “FactoryMethodPatternExample” was created.

1. Define Document Classes:

* Interfaces for different document types such as “WordDocument”, “PdfDocument”, and “ExcelDocument” were created.

1. Create Concrete Document Classes:

* Concrete classes for each document type that implements or extends the above interfaces were implemented.

1. Implement the Factory Method:

* An abstract class “DocumentFactory” with a method “createDocument()” was created.
* Concrete factory classes for each document type that extends “DocumentFactory” and implements the “createDocument()” method was created.

1. Test the Factory Method Implementation:

* A test class to demonstrate the creation of different document types using the factory method was created.