**Implementing Factory Method Pattern**

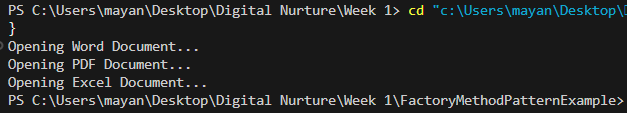
The Factory Method Pattern is a creational design pattern used to create objects without specifying their exact class. Instead, you use a factory class to generate instances of a common interface or abstract class.

Document is the common interface that all document types (Word, PDF, Excel) will implement. It has a method open(), which each document type will define in its own way.

Each class implements the Document interface and provides its own version of open().Each class has the same method (open) but behaves differently.

DocumentFactory is the base factory class. It declares the createDocument() method, but doesn't implement it — it's meant to be overridden.

Each document type has its own factory class. Each concrete factory knows how to create only one specific document type.

**Sample Output  
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