**PROGRAM:**

public class FactoryPattern {  
 interface Document{  
 void open();  
 }  
 static class WordDocument implements Document{  
 public void open()  
 {  
 System.*out*.println("Opening the word Document");  
 }  
  
 }  
 static class PdfDocument implements Document{  
 public void open()  
 {  
 System.*out*.println("Opening the PDF Document");  
 }  
 }  
 static class ExcelDocument implements Document{  
 public void open()  
 {  
 System.*out*.println("Opening the Excel Document");  
 }  
 }  
 abstract static class DocumentFactory{  
 public abstract Document creatDocument();  
 }  
 static class WordDocumentFactory extends DocumentFactory{  
 public Document creatDocument()  
 {  
 return new WordDocument();  
 }  
 }  
 static class PdfDocumentFactory extends DocumentFactory{  
 public Document creatDocument()  
 {  
 return new PdfDocument();  
 }  
 }  
 static class ExcelDocumentFactory extends DocumentFactory{  
 public Document creatDocument()  
 {  
 return new ExcelDocument();  
 }  
 }  
 public static void main(String[] args){  
 DocumentFactory WordFactory=new WordDocumentFactory();  
 DocumentFactory PdfFactory=new PdfDocumentFactory();  
 DocumentFactory ExcelFactory=new ExcelDocumentFactory();  
 Document wordDoc=WordFactory.creatDocument();  
 Document pdfDoc=PdfFactory.creatDocument();  
 Document excelDoc=ExcelFactory.creatDocument();  
 wordDoc.open();  
 pdfDoc.open();  
 excelDoc.open();  
 }  
}

**OUTPUT:**

