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

**Program:**

Document.java:

package com.factory;

public interface Document {

void open();

}

WordDocument.java:

package com.factory;

public class WordDocument implements Document {

public void open() {

System.***out***.println("Opening a Word Document.");

}

}

PdfDocument.java:

package com.factory;

public class PdfDocument implements Document {

public void open() {

System.***out***.println("Opening a PDF Document.");

}

}

ExcelDocument.java:

package com.factory;

public class ExcelDocument implements Document {

public void open() {

System.***out***.println("Opening an Excel Document.");

}

}

DocumentFactory.java:

package com.factory;

public abstract class DocumentFactory {

public abstract Document createDocument();

}

WordDocumentFactory.java:

package com.factory;

public class WordDocumentFactory extends DocumentFactory {

public Document createDocument() {

return new WordDocument();

}

}

PdfDocumentFactory.java:

package com.factory;

public class PdfDocumentFactory extends DocumentFactory {

public Document createDocument() {

return new PdfDocument();

}

}

ExcelDocumentFactory.java:

package com.factory;

public class ExcelDocumentFactory extends DocumentFactory {

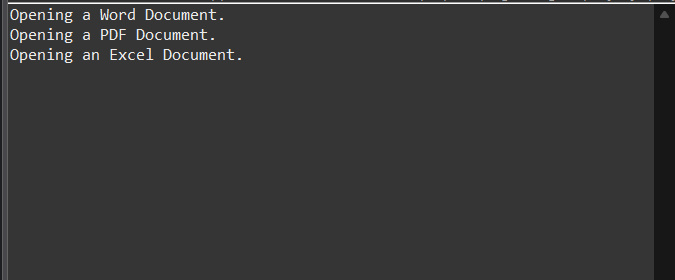
public Document createDocument() {

return new ExcelDocument();

}

}

**Output:**

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