**WEEK-1**

**MODULE -1**

SUPERSET ID:6407550

**EXERCISE:2**

**Document.java**

package factory;

public interface Document {

void open();

}

**WordFile.java**

package factory;

public class WordFile implements Document {

public void open() {

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

}

}

**PdfFile.java**

package factory;

public class PdfFile implements Document {

public void open() {

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

}

}

**ExcelFile.java**

package factory;

public class ExcelFile implements Document {

public void open() {

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

}

}

DocumentFactory.java

package factory;

public abstract class DocumentFactory {

public abstract Document createDocument();

}

**WordFactory.java**

package factory;

public class WordFactory extends DocumentFactory {

public Document createDocument() {

return new WordFile();

}

}

**PdfFactory.java**

package factory;

public class PdfFactory extends DocumentFactory {

public Document createDocument() {

return new PdfFile();

}

}

**ExcelFactory.java**

package factory;

public class ExcelFactory extends DocumentFactory {

public Document createDocument() {

return new ExcelFile();

}

}

**FactoryTest.java**

package factory;

public class FactoryTest {

public static void main(String[] args) {

DocumentFactory wordFactory = new WordFactory();

Document word = wordFactory.createDocument();

word.open();

DocumentFactory pdfFactory = new PdfFactory();

Document pdf = pdfFactory.createDocument();

pdf.open();

DocumentFactory excelFactory = new ExcelFactory();

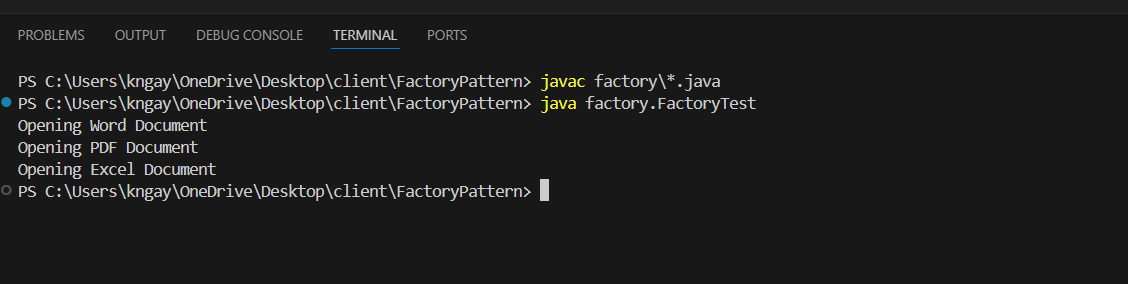
Document excel = excelFactory.createDocument();

excel.open();

}

}

**OUTPUT:**

****