public interface document {

    void open();

}

public class exceldocument implements document {

    public void open() {

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

    }

}

public class pdfdocument implements document {

    public void open() {

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

    }

}

public class worddocument implements document {

    public void open() {

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

    }

}

public abstract class documentfactory {

    public abstract document createDocument();

}

public class exceldocumentfactory extends documentfactory {

    public document createDocument() {

        return new exceldocument();

    }

}

public class pdfdocumentfactory extends documentfactory {

    public document createDocument() {

        return new pdfdocument();

    }

}

public class worddocumentfactory extends documentfactory {

    public document createDocument() {

        return new worddocument();

    }

}

public class testfactory {

    public static void main(String[] args) {

        documentfactory wordFactory = new worddocumentfactory();

        document word = wordFactory.createDocument();

        word.open();

        documentfactory pdfFactory = new pdfdocumentfactory();

        document pdf = pdfFactory.createDocument();

        pdf.open();

        documentfactory excelFactory = new exceldocumentfactory();

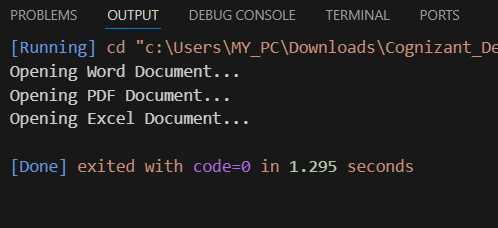
        document excel = excelFactory.createDocument();

        excel.open();

    }

}

**OUTPUT:-**

****