public interface document

{

    void open();

}

using System;

public class worddocument : document

{

    public void open()

    {

        Console.WriteLine("Opening Word Document...");

    }

}

using System;

public class exceldocument : document

{

    public void open()

    {

        Console.WriteLine("Opening Excel Document...");

    }

}

using System;

public class pdfdocument : document

{

    public void open()

    {

        Console.WriteLine("Opening PDF Document...");

    }

}

public abstract class documentfactory

{

    public abstract document createdocument();

}

public class worddocumentfactory : documentfactory

{

    public override document createdocument()

    {

        return new worddocument();

    }

}

public class pdfdocumentfactory : documentfactory

{

    public override document createdocument()

    {

        return new pdfdocument();

    }

}

public class exceldocumentfactory : documentfactory

{

    public override document createdocument()

    {

        return new exceldocument();

    }

}

using System;

class program

{

    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:-**

