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

using System;

interface document

{

void create\_document();

}

class wordDocument : document

{

public void create\_document()

{

Console.WriteLine("Creating a Word Document");

}

}

class pdfDocument : document

{

public void create\_document()

{

Console.WriteLine("Creating a Pdf Document");

}

}

class ExcelDocument : document

{

public void create\_document()

{

Console.WriteLine("Creating a Excel Document");

}

}

abstract class DocumentFactory

{

public abstract document createDocument();

}

class Worddoc : DocumentFactory

{

public override document createDocument()

{

return new wordDocument();

}

}

class Pdfdoc : DocumentFactory

{

public override document createDocument()

{

return new pdfDocument();

}

}

class Exceldoc : DocumentFactory

{

public override document createDocument()

{

return new ExcelDocument();

}

}

class FactoryMethod

{

static void Main(string[] args)

{

DocumentFactory doc;

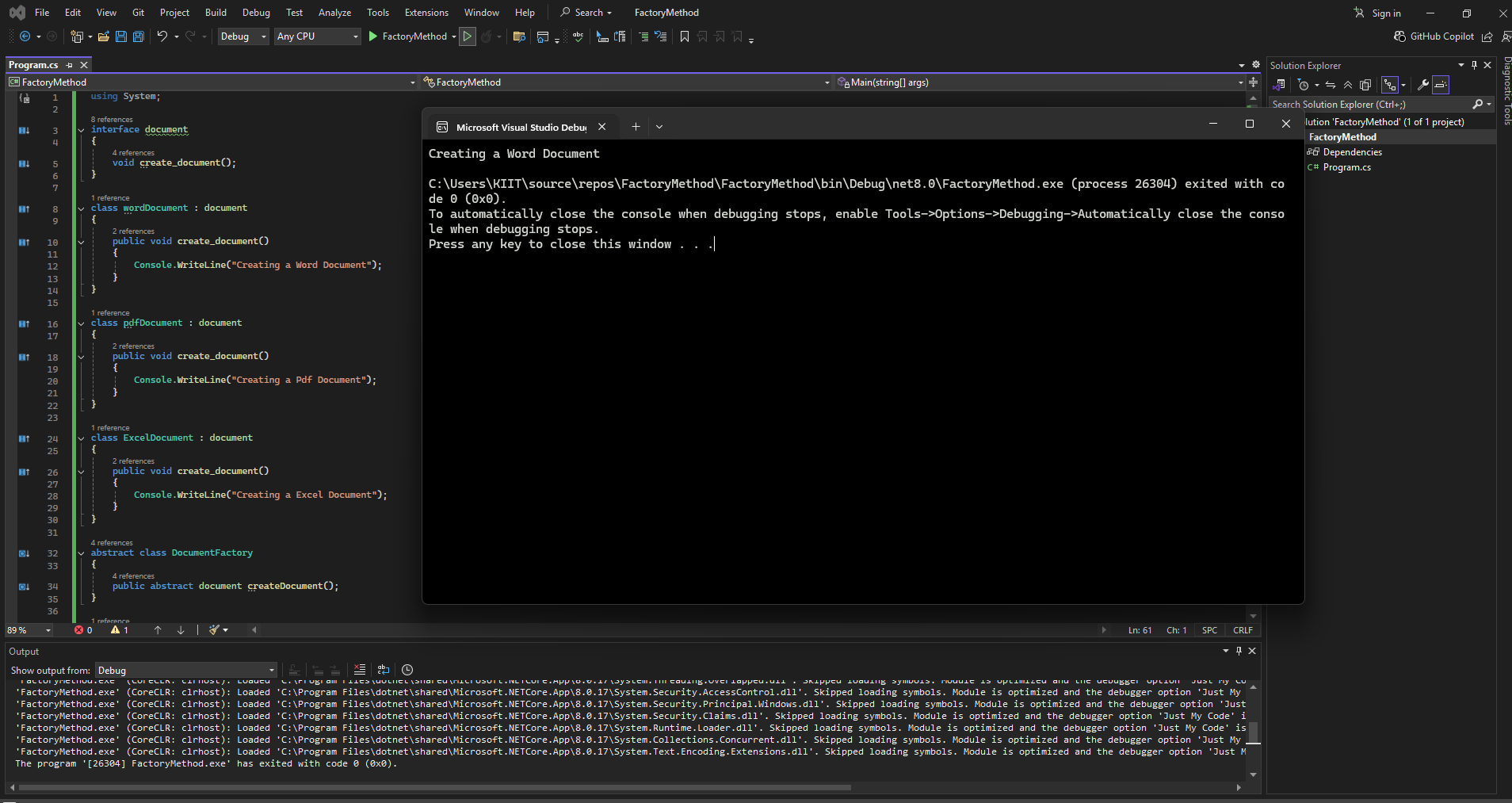
doc = new Worddoc();

document worddoc = doc.createDocument();

worddoc.create\_document();

}

}

****