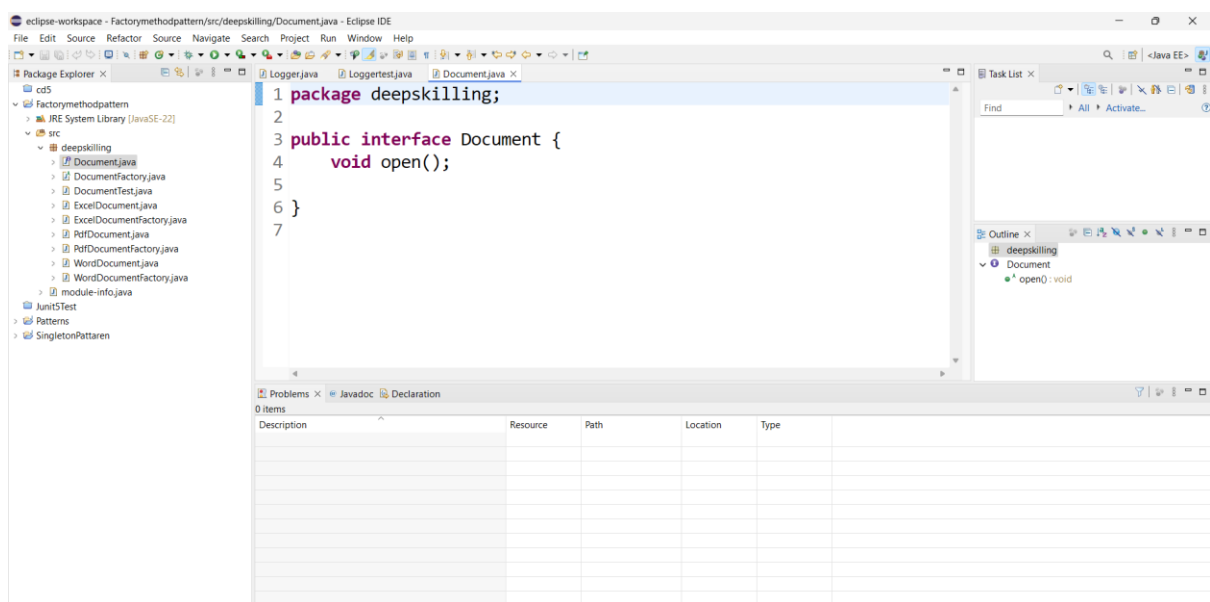


Factory Method Pattern

1) Document.java: Code

```
package deepskilling;  
  
public interface Document {  
  
    void open();  
  
}
```

Pic from Eclipse IDE:



2) DocumentFactory.java: code

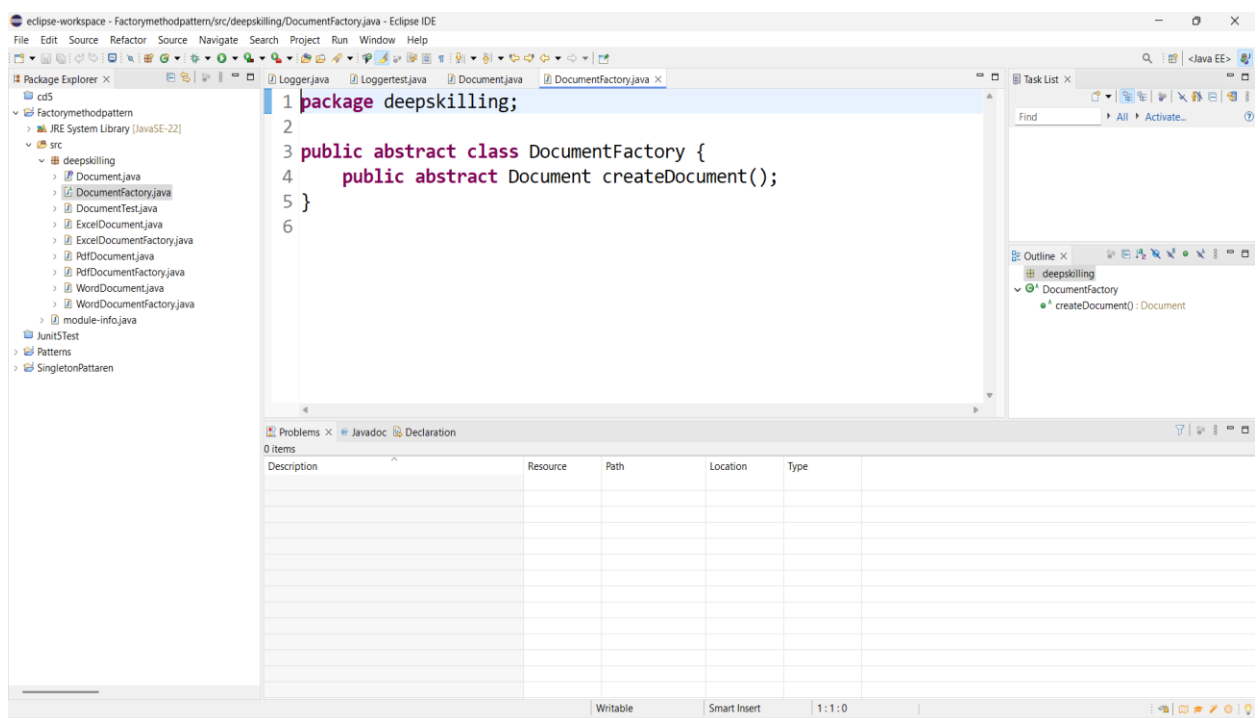
```
package deepskilling;
```

```
public abstract class DocumentFactory {
```

```
    public abstract Document createDocument();
```

```
}
```

Pic From Eclipse IDE:



3)ExcelDocument.java: Code

```
package deepskilling;

public class ExcelDocument implements Document {

    @Override

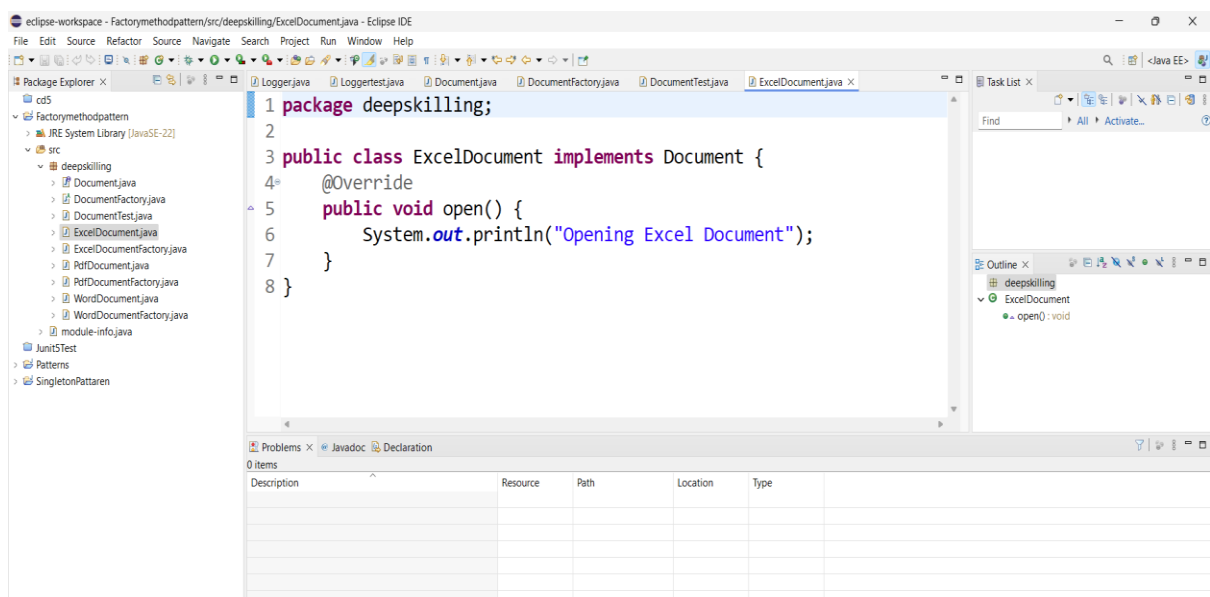
    public void open() {

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

    }

}
```

Pic from Eclipse IDE:



4)ExcelDocumentFactory.java : Code

```
package deepskilling;
```

```
public class ExcelDocumentFactory extends  
DocumentFactory {
```

```
    @Override
```

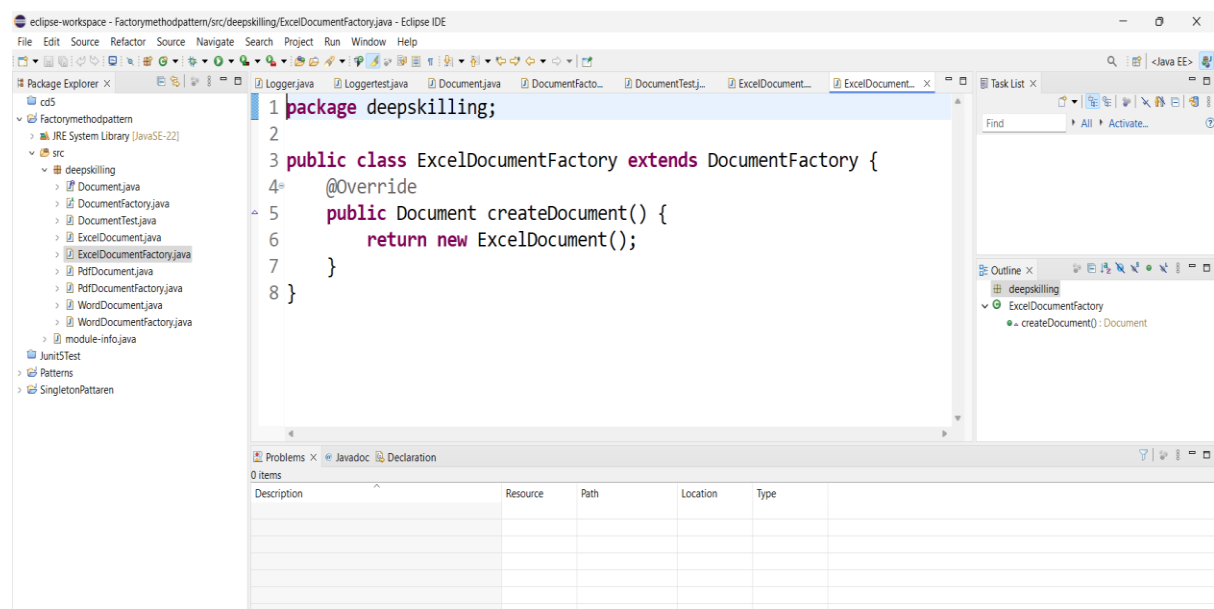
```
    public Document createDocument() {
```

```
        return new ExcelDocument();
```

```
    }
```

```
}
```

Pic From Eclipse IDE :



5)PdfDocument.java: code

```
package deepskilling;
```

```
public class PdfDocument implements Document {
```

@Override

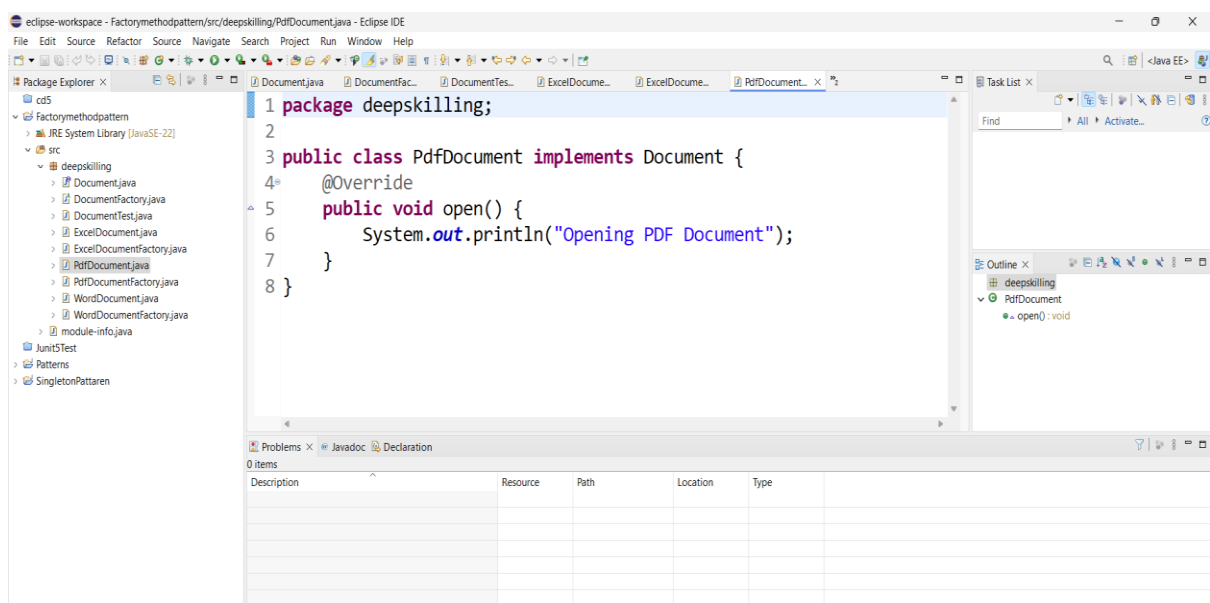
```
public void open() {
```

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

}

}

Pic From Eclipse IDE:



6)PdfDocumentFactory.java : Code

```
package deepskilling;
```

```
public class PdfDocumentFactory extends  
DocumentFactory {
```

```
    @Override
```

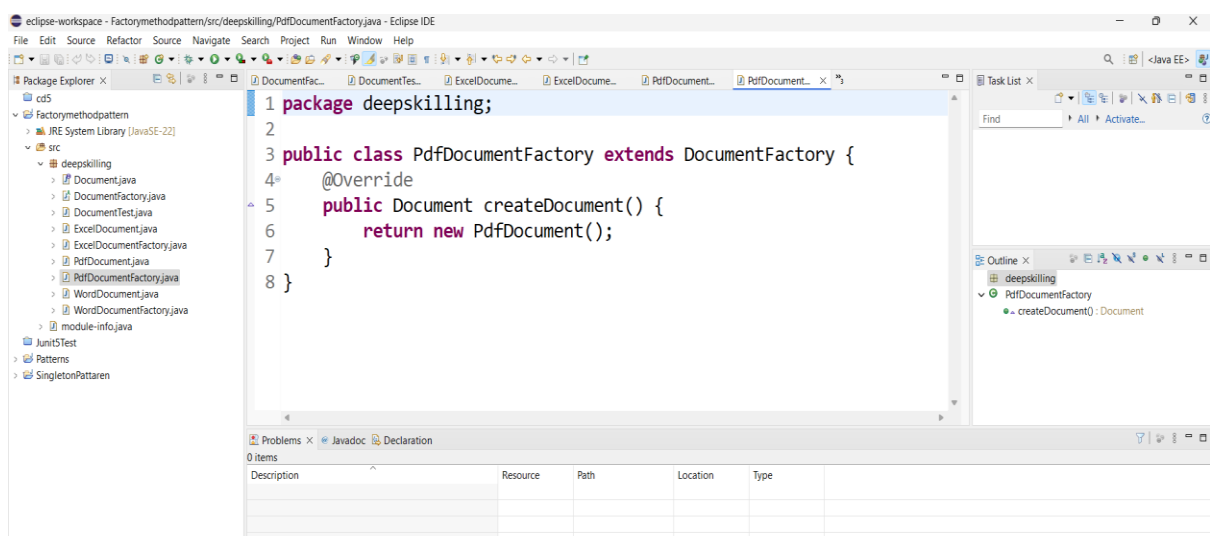
```
    public Document createDocument() {
```

```
        return new PdfDocument();
```

```
    }
```

```
}
```

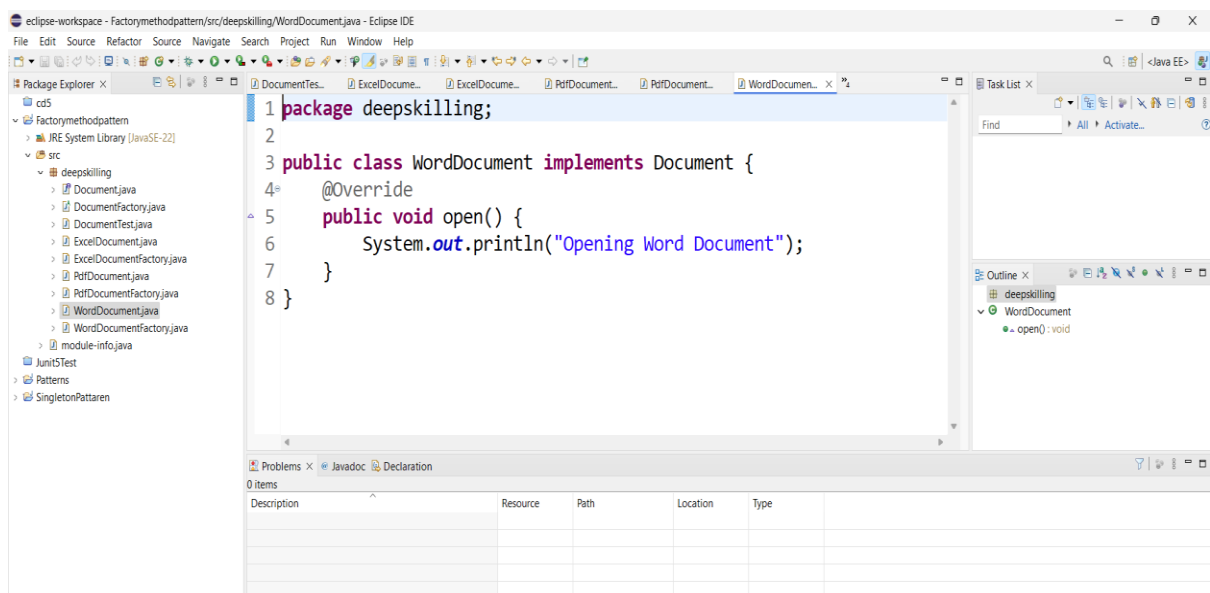
Pic From Eclipse IDE:



7) WordDocument.java : Code

```
package deepskilling;  
  
public class WordDocument implements Document {  
  
    @Override  
  
    public void open() {  
  
        System.out.println("Opening Word Document");  
  
    }  
  
}
```

Pic From Eclipse IDE:



8) WordDocumentFactory.java : Code

```
package deepskilling;
```

```
public class WordDocumentFactory extends  
DocumentFactory {
```

```
    @Override
```

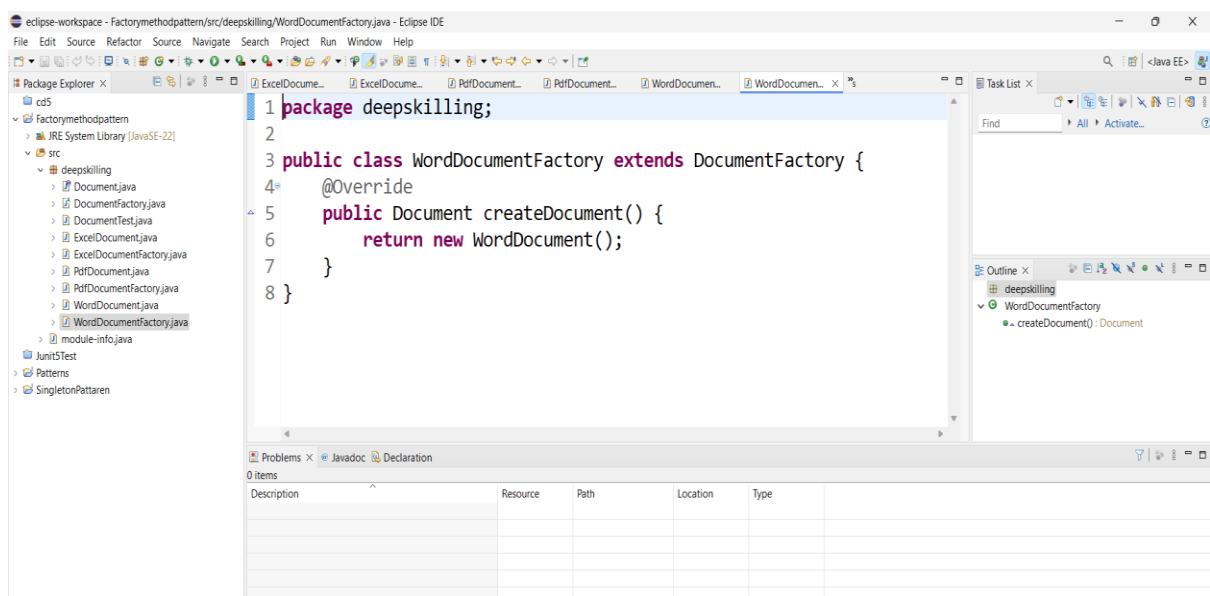
```
    public Document createDocument() {
```

```
        return new WordDocument();
```

```
    }
```

```
}
```

Pic From Eclipse IDE:



9)DocumentTest.java : Code

```
package deepskilling;

public class DocumentTest {

    public static void main(String[] args) {

        DocumentFactory wordFactory = new
WordDocumentFactory();

        Document wordDoc =
wordFactory.createDocument();

        wordDoc.open();

        DocumentFactory pdfFactory = new
PdfDocumentFactory();

        Document pdfDoc = pdfFactory.createDocument();

        pdfDoc.open();

        DocumentFactory excelFactory = new
ExcelDocumentFactory();

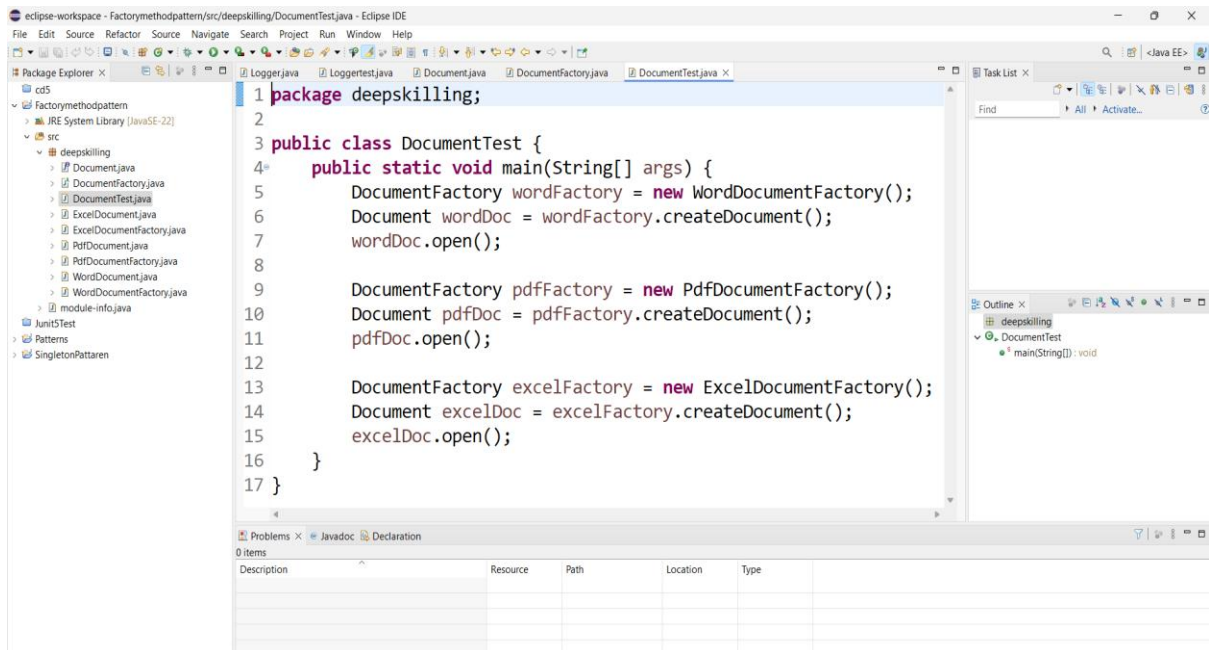
        Document excelDoc =
excelFactory.createDocument();

        excelDoc.open();

    }

}
```

Pic From Eclipse IDE:



OUTPUT:

Pic From Eclipse IDE:

