**package** factoryMEthod;

**public** **interface** Doc {

**void** open();

}

**package** factoryMEthod;

**public** **class** WordDoc **implements** Doc {

**public** **void** open() {

System.***out***.println("Open Word Doc");

}}

**package** factoryMEthod;

**public** **class** PdfDoc **implements** Doc{

**public** **void** open() {

System.***out***.println("Open Pdf Doc");

}}

**package** factoryMEthod;

**public** **class** ExcelDoc **implements** Doc {

**public** **void** open() {

System.***out***.println("Open Excel Doc");

}}

**package** factoryMEthod;

**public** **class** DocumentFactory {

**public** Doc createDocument(String type) {

**if** (type.equalsIgnoreCase("word")) {

**return** **new** WordDoc();

} **else** **if** (type.equalsIgnoreCase("pdf")) {

**return** **new** PdfDoc();

} **else** **if** (type.equalsIgnoreCase("excel")) {

**return** **new** ExcelDoc();

}

**return** **new** WordDoc();

}

}

**package** factoryMEthod;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

DocumentFactory factory = **new** DocumentFactory();

Doc wordDoc = factory.createDocument("word");

wordDoc.open();

Doc pdfDoc = factory.createDocument("pdf");

pdfDoc.open();

Doc excelDoc = factory.createDocument("excel");

excelDoc.open();

}}

Output:

Open Word Doc

Open Pdf Doc

Open Excel Doc