**package** Factory\_Method;

**public** **interface** Document {

**void** open();

}

**package** Factory\_Method;

**public** **class** WordDocument **implements** Document {

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

System.***out***.println("Word document.");

}

}

**package** Factory\_Method;

**public** **class** PdfDocument **implements** Document {

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

System.***out***.println("PDF document.");

}

}

**package** Factory\_Method;

**public** **class** ExcelDocument **implements** Document {

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

System.***out***.println("Excel document.");

}

}

**package** Factory\_Method;

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

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

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

**return** **new** WordDocument();

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

**return** **new** PdfDocument();

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

**return** **new** ExcelDocument();

}

**return** **new** WordDocument();

}

}

**package** Factory\_Method;

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

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

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

Document wdoc = factory.createDocument("Word");

wdoc.open();

Document pdoc = factory.createDocument("pdf");

pdoc.open();

Document edoc = factory.createDocument("excel");

edoc.open();

}

}

output:

