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# **J Adaptor Class Generator Sample Programs**

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# **SAMPLE 1 – USING CLASSES**

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## **Example 1: Example of using java.lang.System, java.io.PrintStream, and java.util.Date classes**

This section explains the “Sample Program - Example 1 ” provided with this product.

Example 1 shows how the java.lang.System, java.io.PrintStream, and java.util.Date classes of Java are used from COBOL.

### **Outline**

Generate an instance of the java.util.Date class and place the content on the standard output (class variable out of the java.lang.System class).

### **Distribution files**

JADP01.TXT (program description)

JAVA2COB.MGT (generation name management file)

DATEMAIN.PRJ (project file)

DATEMAIN.CBI (compiler option file)

DATEMAIN.COB (COBOL source program)

DATE01JAVA.PRJ (project file)

DATE01JAVA.CBI (compiler option file)

DATE01JAVA2.PRJ (project file)

DATE01JAVA2.CBI (compiler option file)

**COBOL functions used**

Object-oriented programming functions:

Object generation

Method invocation

**Java classes used**

java.lang.System

java.io.PrintStream

java.util.Date

**Generating adapter classes**

Generate adapter classes using the java2cob command.

java2cob java.lang.Object	[1]
java2cob java.lang.System	[2]
java2cob java.util.Date	[3]

1. Generate an adapter class of the java.lang.Object class (required for calling Java ).
2. Generate an adapter class of the java.lang.System class used for standard output. An adapter class of the java.util.PrintStream class referenced from the java.lang.System class is also generated.
3. Generate an adapter class of the java.util.Date class.

**Project build or rebuild function**

This section explains how to create an executable program using the build function of the project manager. Refer to the “Fujitsu COBOL User’s Guide” for detailed information on how to use the project manager.

1. When using Java(JDK 1.1.x), open project file “DATE01JAVA.PRJ”. When using Java2(J2SDK 1.2.2 or later), open project file “DATE01JAVA2.PRJ”.
2. Select “Build” from the “Project“ menu. An adapter class DLL (DATE.DLL) is generated.
3. Open project file “DATEMAIN.PRJ.”
4. Select “Build” from the “Project“ menu.

### **Running the program**

Run the executable program from the MS-DOS prompt. The date and time are displayed.



## **SAMPLE 2 – SPECIFYING METHOD**

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### **Example 2: Example of generating an adapter class by specifying constructor/method/field**

This program description explains “Sample Program - Example 2” provided with this product.

Example 2 shows how to generate the adapter class specifying constructor/method/field.

#### **Outline**

The program contents are the same as example 1. However, example 2 generates the adapter class specifying the Java constructor/method/field name used by the program.

#### **Distribution files**

JADP02.TXT (program description)

JAVA2COB.MGT (generation name management file)

DATEMAIN.PRJ (project file)

DATEMAIN.CBI (compiler option file)

DATEMAIN.COB (COBOL source program)

DATE02JAVA.PRJ (project file)

DATE02JAVA.CBI (compiler option file)

DATE02JAVA2.PRJ (project file)

DATE02JAVA2.CBI (compiler option file)

### COBOL functions used

Object-oriented programming functions

Object generation

Method invocation

### Java classes and constructor/method/field used

java.lang.System class -- out field

java.io.PrintStream class -- println(java.lang.Object) method

java.util.Date class -- Date() constructor

### Generating adapter classes

Generate adapter classes using the java2cob command.

java2cob -r java.lang.System -gf out \	[1]
-r java.io.PrintStream -gm "println(java.lang.Object)" \	[2]
-r java.util.Date -gc "Date()"	[3]

Note: “\” shows the continuance line.

1. Generate an adapter class of the java.lang.System class that contains the out field used for standard output.
2. Generate an adapter class of the java.io.PrintStream class that contains the println(java.lang.Object) method used for standard output.
3. Generate an adapter class of the java.util.Date class that contains the Date() constructor.

### Project build or rebuild function

This section explains how to create an executable program using the build function of the project manager. Refer to the “Fujitsu COBOL User’s Guide” for detailed information on how to use the project manager.

1. When using Java(JDK 1.1.x), open project file “DATE02JAVA.PRJ”. When using Java2(J2SDK 1.2.2 or later), open project file “DATE02JAVA2.PRJ”.
2. Select “Build” from the “Project” menu. An adapter class DLL (DATE.DLL) is generated.
3. Open project file “DATEMAIN.PRJ.”
4. Select “Build” from the “Project” menu.

### **Running a program**

Run the executable program from the MS-DOS prompt. The date and time are displayed.