

Example of COBOL using Java classes to get date and time zone information

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The attached program 'calendar.cbl' uses OOP to return information about a passed date and the current time using the java.util.GregorianCalendar and other related classes.

You can compile and run it as follows:

```
iscc calendar.cbl
iscrun CALENDAR
```

For instance, running the program with this command:

```
iscrun CALENDAR 20230215
```

returns this information:

```
Getting information for 20230215
ERA: 1
YEAR: 2023
MONTH: 1
WEEK_OF_YEAR: 7
WEEK_OF_MONTH: 3
DATE: 15
DAY_OF_MONTH: 15
DAY_OF_YEAR: 46
DAY_OF_WEEK: 4
DAY_OF_WEEK_IN_MONTH: 3
Getting information for current time
AM_PM: 0
HOUR: 9
HOUR_OF_DAY: 9
MINUTE: 40
SECOND: 15
MILLISECOND: 549
ZONE_OFFSET: -8
DST_OFFSET: 0
```

This program was based on the attached Java example, also found here:

<http://java.sun.com/javase/6/docs/api/java/util/GregorianCalendar.html>

The DAY_OF_WEEK in the example above is '4', which means it's a Wednesday.

Another way to get the text of the day of the week is to use java.time classes.

You can compile and run this attached sample as follows:

```
iscc day-of-week.cbl
iscrun DAY_OF_WEEK
```

The output for February 15, 2023 is WEDNESDAY.