

Element Technology – Solar/ Lunar Calendar Conversion

Summary

It provides a function to change a given solar date into a lunar date and vice versa.

Description

It has a function to alter a given solar date into a lunar date and vice versa.

Related Sources

Type	Corresponding Sources	Description	Remarks
Service	egovframework.com.utl.fcc.service.EgovDateUtil.java	A utility related to the Date processing	
Controller	egovframework.com.utl.fcc.web.EgovDateUtilController.java	A controller for testing	
JSP	/WEB-INF/jsp/egovframework/cmm/utl/EgovSlrCldLrrCnvr.jsp	A test page	

Method

Output	Method	Description	Details
HashMap	toLunar(String sDate)	Converting into a lunar date	A function to change a solar date into a lunar date
String	toSolar(String sDate, int iLeapMonth)	Converting into a solar date	A function to change a lunar date into a solar date

Input

- Date: A String- type date (ex. 20090501)
- Leap Month: An int- type leap month separation [0,1] (ex. 1)
- Validation Check: [Element technology validation check](#)

Output

- HashMap
- String

Manual

```
import egovframework.com.utl.fcc.service.EgovDateUtil;
```

```
...  
String sSlrDate = "20080820";  
HashMap hm = EgovDateUtil.toLunar(sSlrDate);  
  
String retLrrDate = hm.get("day").toString();  
String retLeapMonth = hm.get("leap").toString();
```

```
...  
String sLrrDate = "20080820";  
int iLeapMonth = 0; // month: 0, leap month: 1  
  
String retSlrDate = EgovDateUtil.toSolar(sLrrDate, iLeapMonth);
```

...

References

- Refer to ICU Lib : `com.ibm.icu.util.ChineseCalendar`