

CreateDates 4.5.1

De Wiki

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```
public class CreateDates {  
  
    public static void main(String[] args) throws PatriusException {  
  
        // Patrius Dataset initialization (needed for example to get the UTC  
time)  
        PatriusDataset.addResourcesFromPatriusDataset() ;  
  
        // Recovery of the UTC time scale using a "factory" (not to duplicate  
such unique object)  
        final TimeScale TUC = TimeScalesFactory.getUTC();  
  
        // Date of the orbit (given in UTC time scale)  
        final AbsoluteDate date = new AbsoluteDate("2010-01-01T12:00:00.000",  
TUC);  
  
        // Other way to initialize the absolute date  
        final AbsoluteDate dateBis = new AbsoluteDate(2010, 1, 1, 12, 0, 0.,  
TUC);  
  
        System.out.println("Comparizon between both dates =  
"+dateBis.compareTo(date) + " s");  
  
        // Printing date in TUC and TAI scale (by default)  
        System.out.println();  
        System.out.println(date.toString(TUC));  
        System.out.println(date.toString());  
  
        // Creation of another date by shifting a previous one  
        final AbsoluteDate otherDate = date.shiftedBy(100.);  
        System.out.println();  
        System.out.println(otherDate.toString(TUC));  
  
        // Gap between two dates  
        otherDate.durationFrom(date);  
        System.out.println();  
        System.out.println("Gap between both dates =  
"+otherDate.durationFrom(date)+" s");  
  
    }  
  
}
```

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