ICSE J

Java for Class X Computer Applications

Java Program to Check whether a given year is a Leap Year

A leap year is a year which is divisible by 4, with the exception that if the year is divisible by 100, then it should also be divisible by 400.

Given below is a Java program which finds whether a given year is a leap year or not.

```
1  public class LeapYear {
2
3      public void find(int year) {
4          if (year % 100 == 0) {
5              if (year % 400 == 0) {
6                  System.out.println(year + " is a leap year");
7              } else {
8                  System.out.println(year + " is not a leap year");
9              }
10         } else {
11             if (year % 4 == 0) {
12                 System.out.println(year + " is a leap year");
13             } else {
14                 System.out.println(year + " is not a leap year");
15             }
16         }
17     }
18 }
```

We first check if the year is divisible by 100 or not.

If the year is divisible by 400, we check if it is divisible by 400. If yes, we display a message saying that it is a leap year. Otherwise, we print a message saying that it is not a leap year.

If the year is not divisible by 400, we check if it is divisible by 4. If yes, we print a message saying that it is a leap year. Otherwise, it is not a leap year.

Sample Executions :

Input :
year = 800
Output :
800 is a leap year

Input :
year = 700
Output :
700 is not a leap year

Input :
year = 34
Output :
34 is not a leap year

Input :
year = 2013
Output :
2013 is not a leap year

3 thoughts on “Java Program to Check whether a given year is a Leap Year”

Kuhoo
March 13, 2014 at 6:48 am

Good explanation.

saptadeepa ghosh
July 17, 2014 at 9:15 am

but 2012 is not divisible by 100 or 400 …but still its a leap year ….how cpme ??

Ranjith Post author
August 2, 2014 at 8:54 am

2012 is divisble by 4, so it is a leap year.
