Prime Number Program in Java

Prime number in Java: **Prime number** is a number that is greater than 1 and divided by 1 or itself only. In other words, prime numbers can't be divided by other numbers than itself or 1. For example 2, 3, 5, 7, 11, 13, 17.... are the prime numbers.

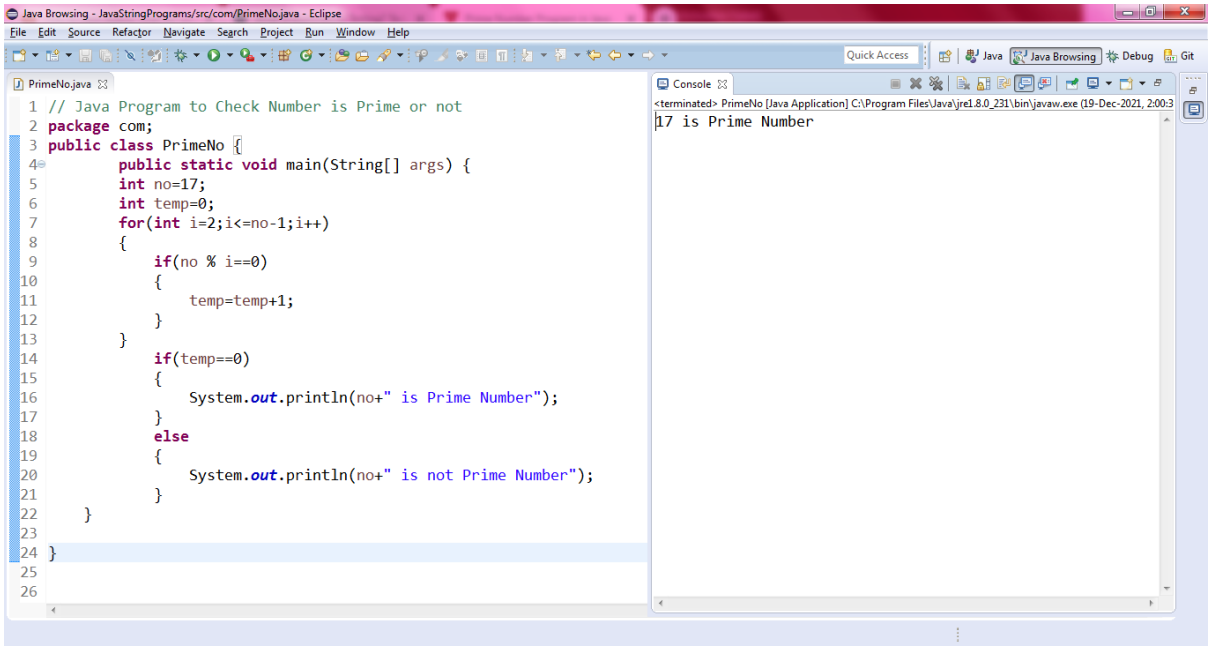
> Note: 0 and 1 are not prime numbers. The 2 is the only even prime number because all the other even numbers can be divided by 2.

```
/ Java Program to Check Number is Prime or not
package com;

public class PrimeNo {

	public static void main(String[] args) {
		int no=17;
		int temp=0;
		for(int i=2;i<=no-1;i++)
		{
			if(no % i==0)
			{
				temp=temp+1;
			}
		}
			if(temp==0)
			{
				System.out.println(no+" is Prime Number");
			}
			else
			{
				System.out.println(no+" is not Prime Number");
			}
		}

	}
```



Leap Year Program in Java

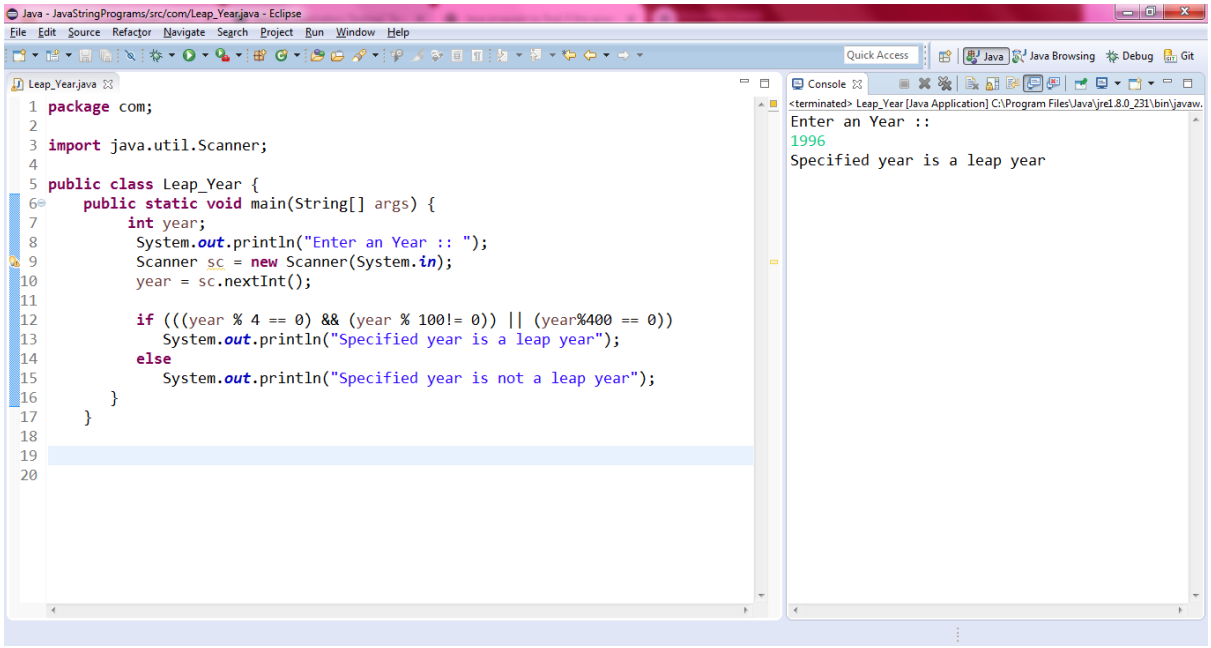
A year is a leap year if –

1) It is evenly divisible by 100
2) If it is divisible by 100, then it should also be divisible by 400
3) Except this, all other years evenly divisible by 4 are leap years

Code

```
package com;
import java.util.Scanner;
public class Leap_Year {
      public static void main(String[] args) {
              int year;
            System.out.println("Enter an Year :: ");
            Scanner sc = new Scanner(System.in);
            year = sc.nextInt();

            if (((year % 4 == 0) && (year % 100!= 0)) || (year%400 == 0))
               System.out.println("Specified year is a leap year");
            else
               System.out.println("Specified year is not a leap year");
         }
}
```



Even and Odd Number Program in Java

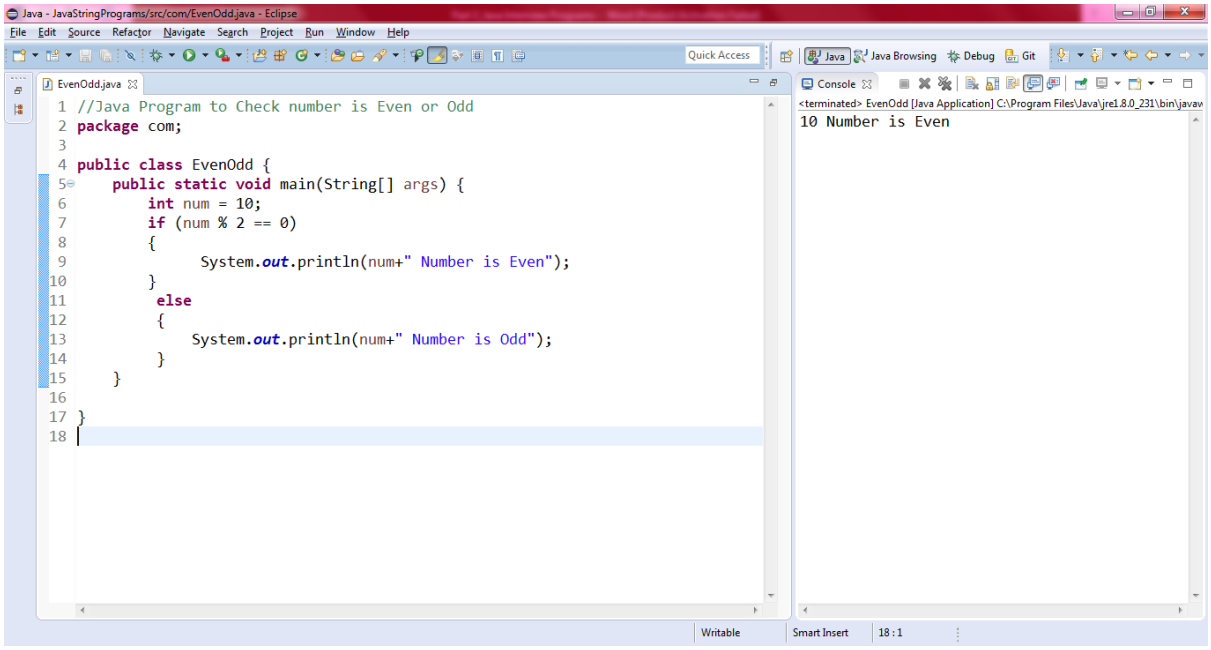
A number that is divisible by 2 and generates a remainder of 0 is called an even number. All the numbers ending with 0, 2, 4, 6, and 8 are even numbers. On the other hand, number that is not divisible by 2 and generates a remainder of 1 is called an odd number. All the numbers ending with 1, 3, 5,7, and 9 are odd numbers.

Code

```
//Java Program to Check number is Even or Odd
package com;

public class EvenOdd {
	public static void main(String[] args) {
		int num = 10;
	  if (num % 2 == 0)
	  {
		System.out.println(num+" Number is Even");
	  }
	   else
	   {
		System.out.println(num+" Number is Odd");
	   }
	}

}
```


Java - JavaStringPrograms/src/com/EvenOdd.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Java
Java Browsing
Debug
Git
EvenOdd.java
1 //Java Program to Check number is Even or Odd
2 package com;
3
4 public class EvenOdd {
5 public static void main(String[] args) {
6 int num = 10;
7 if (num % 2 == 0)
8 {
9 System.out.println(num+" Number is Even");
10 }
11 else
12 {
13 System.out.println(num+" Number is Odd");
14 }
15 }
16
17 }
18
Console
<terminated> EvenOdd [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw
10 Number is Even
Writable
Smart Insert
18 : 1