

## Date & Time In Java (joda.org):

```
import java.time.*;
import java.time.LocalDate;
import java.time.LocalTime;
class test
{
    public static void main(String args[])
    {

        LocalDate d = LocalDate.now();
        System.out.println(d);

        LocalTime t = LocalTime.now();
        System.out.println(t);

    }
}
```

**TO PRINT CURRENT SYSTEM  
DATE AND TIME.**

```
C:\Users\Atish kumar sahu\desktop>javac test.java

C:\Users\Atish kumar sahu\desktop>java test
2022-05-28
22:27:18.336
```

```
import java.time.*;
class test
{
public static void main(String args[])
{

LocalDate d = LocalDate.now();
System.out.println("DATE = "+d);

int day = d.getDayOfMonth();
int month = d.getMonthValue();
int year = d.getYear();

System.out.println("DAY = "+day);
System.out.println("MONTH = "+month);
System.out.println("YEAR = "+year);

System.out.printf("%d-%d-%d", day, month, year);
System.out.println();
System.out.printf("%d-%d-%d", month, day, year);
System.out.println();
System.out.printf("%d-%d-%d", day, year, month);

}
}
```

```
C:\Users\Atish kumar sahu\desktop>javac test.java
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
DATE = 2022-05-28
```

```
DAY = 28
```

```
MONTH = 5
```

```
YEAR = 2022
```

```
28-5-2022
```

```
5-28-2022
```

```
28-2022-5
```

```
import java.time.*;
class test
{
    public static void main(String args[])
    {
        System.out.println();
        LocalTime t = LocalTime.now();
        System.out.println("TIME = "+t);

        int hour = t.getHour();
        int min = t.getMinute();
        int sec = t.getSecond();
        int nsec = t.getNano();

        System.out.println("HOUR = "+hour);
        System.out.println("MINUTE = "+min);
        System.out.println("SECOND = "+sec);
        System.out.println("NANO = "+nsec);
        System.out.printf("%d-%d-%d-%d", hour, min, sec, nsec);
    }
}
```

```
C:\Users\Atish kumar sahu\desktop>javac test.java
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
TIME = 22:57:53.332
```

```
HOUR = 22
```

```
MINUTE = 57
```

```
SECOND = 53
```

```
NANO = 332000000
```

```
22-57-53-332000000
```

```
C:\Users\Atish kumar sahu\desktop>
```

```
import java.time.*;
class test
{
public static void main(String args[])
{
LocalDateTime dt = LocalDateTime.now();
System.out.println(dt);

int day = dt.getDayOfMonth();
int month = dt.getMonthValue();
int year = dt.getYear();

System.out.printf("%d-%d-%d", day, month, year);
System.out.println();

int hr = dt.getHour();
int min = dt.getMinute();
int sec = dt.getSecond();
int nsec = dt.getNano();

System.out.printf("%d::%d::%d::%d", hr, min, sec, nsec);

}
}
```

```
C:\Users\Atish kumar sahu\desktop>java test
2022-05-29T01:23:10.595
29-5-2022
1::23::10::595000000
C:\Users\Atish kumar sahu\desktop>
```

```
import java.time.*;
class test
{
public static void main(String args[])
{
LocalDateTime dt = LocalDateTime.of(2000,02,29,12,55,12);
System.out.println(dt);

System.out.println(dt.plusMonths(15));

System.out.println(dt.minusMonths(15));

LocalDateTime dt1 = LocalDateTime.of(2000,Month.AUGUST,18,01,15,6);
System.out.println(dt1);

}
}
```

```
C:\Users\Atish kumar sahu\desktop>javac test.java
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
2000-02-29T12:55:12
```

```
2001-05-29T12:55:12
```

```
1998-11-29T12:55:12
```

```
2000-08-18T01:15:06
```

```
import java.time.*;
class test
{
public static void main(String args[])
{

    LocalDate d = LocalDate.of(2001,04,28);

    LocalDate D = LocalDate.now();

    Period p = Period.between(d, D);

    System.out.println(d);
    System.out.println(D);
    System.out.println(p);
    System.out.printf("%d year %d month %d day",p.getYears(),p.getMonths(),p.getDays());

    System.out.println();
    LocalDate ddd = LocalDate.of(2001+60, 04, 28);
    Period p1 = Period.between(D, ddd);
    int d1 = p1.getYears()*365 + p1.getMonths()*30 + p1.getDays();
    System.out.printf("%d day", d1);
}
}
```

```
C:\Users\Atish kumar sahu\desktop>javac test.java

C:\Users\Atish kumar sahu\desktop>java test
2001-04-28
2022-05-29
P21Y1M1D
21 year 1 month 1 day
14200 day
C:\Users\Atish kumar sahu\desktop>
```

```
import java.time.*;
import java.util.Scanner;
class test
{
public static void main(String args[])
{
Scanner in = new Scanner(System.in);
System.out.println("enter a year");
int year = in.nextInt();

Year y = Year.of(year);
if(y.isLeap())
{
System.out.printf("%d is leap year",year);
}
else
{
System.out.printf("%d is not leap year", year);
}
}
}
```

```
C:\Users\Atish kumar sahu\desktop>javac test.java
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
enter a year
```

```
2019
```

```
2019 is not leap year
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
enter a year
```

```
2016
```

```
2016 is leap year
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
enter a year
```

```
2020
```

```
2020 is leap year
```

```
C:\Users\Atish kumar sahu\desktop>java test
```

```
enter a year
```

```
2015
```

```
2015 is not leap year
```

```
C:\Users\Atish kumar sahu\desktop>
```