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Date & Time API in Java

=> Date & Time API :-

➔ Date and Time API was in previous versions also but new Date-Time API was introduced in Java SE 8 version

➔ The packages for Date-Time API are :-

1. java.util (old - till JDK 7)
   a. java.util.Date
   b. java.util.Calendar
   c. java.util.TimeZone
2. java.sql
   a. java.sql.Date
   b. java.sql.Time
   c. java.sql.Timestamp
3. java.text
   a. java.text.SimpleDateFormat
   b. java.text.DateFormat
4. java.time (new - JDK 8)
   a. java.time.LocalDate
   b. java.time.LocalTime
   c. java.time.LocalDateTime
   d. java.time.ZoneId
   e. java.time.Clock

f. java.time.Year

g. java.time.YearMonth

h. java.time.Period

i. java.time.Duration

j. java.time.Instant

k. java.time.MonthDay

l. etc

=> **What is difference between old and new Date API**

1. In old Date-Time API, date was mutable

   In new Date-Time API, date is not mutable (immutable)

2. In Old Date-Time API, SimpleDateFormat was not thread-safe
In New Date-Time API, Formatter are thread-safe

3. In Old Date-Time API, we can get date and time by using only one class
In New Date-Time API, there are also different classes for date and time

4. In Old Date-Time API, Year starts with 1900 and Months starts from 0
New Date-Time API, years and months int values were modified

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