| **Methods in StringBuilder and StringBuffer** | | |
| --- | --- | --- |
| **Method** | **Description** | **Example** |
| append (String s) | Adds a string at the end | sb.append("Java") |
| Insert (int offset, String s) | Inserts a string at specified position | sb.insert(2, "Code") |
| Replace (int start, int end, String s) | Replaces characters between start and end with given string | sb.replace(1, 3, "Hi") |
| Delete (int start, int end) | Deletes characters between start and end | sb.delete(2, 4) |
| deleteCharAt(int index) | Deletes character at given index | sb.deleteCharAt(3) |
| reverse() | Reverses the string | sb.reverse() |
| capacity() | Returns current capacity | sb.capacity() |
| ensureCapacity(int minimumCapacity) | Ensures at least the specified capacity | sb.ensureCapacity(100) |
| length() | Returns the number of characters | sb.length() |
| charAt(int index) | Returns the character at given index | sb.charAt(2) |
| setCharAt(int index, char ch) | Sets character at specified index | sb.setCharAt(1, 'X') |
| substring(int start) | Returns substring from start to end | sb.substring(3) |
| substring(int start, int end) | Returns substring between start and end | sb.substring(1, 4) |
| toString() | Converts the object to a string | sb.toString() |
| indexOf(String str) | Returns index of the first occurrence | sb.indexOf("abc") |
| lastIndexOf(String str) | Returns index of the last occurrence | sb.lastIndexOf("abc") |
| trimToSize() | Trims capacity to match current size | sb.trimToSize() |

LocalDate some Methods Example:

LocalDate today = LocalDate.now();

LocalDate birthday = LocalDate.of(1995, 8, 25);

System.out.println("Day of Week: " + birthday.getDayOfWeek());

System.out.println("Is Leap Year: " + today.isLeapYear());

System.out.println("Tomorrow: " + today.plusDays(1));

System.out.println("Is before today? " + birthday.isBefore(today));

// Date to LocalDate

Date date = new Date();

LocalDate localDate = date.toInstant()

.atZone(ZoneId.systemDefault())

.toLocalDate();

// LocalDate to Date

LocalDate localDate = LocalDate.now();

Date date = Date.from(localDate.atStartOfDay(ZoneId.systemDefault()).toInstant());

Methods in LocalDate:

| **Method** | **Description** |
| --- | --- |
| now() | Gets current date |
| of(int year, int month, int day) | Creates a specific date |
| getYear(), getMonth(), getDayOfMonth() | Access parts of the date |
| plusDays(n), plusMonths(n), plusYears(n) | Adds date units |
| minusDays(n), minusMonths(n), minusYears(n) | Subtracts date units |
| isBefore(date), isAfter(date) | Compares dates |
| lengthOfMonth(), lengthOfYear() | Number of days |
| getDayOfWeek() | Day of week (e.g., MONDAY) |
| parse("2025-07-30") | Converts string to date |
| toEpochDay() | Number of days since 1970-01-01 |

Methods in LocalTime:

| **Method** | **Description** |
| --- | --- |
| now() | Gets current time |
| of(int hour, int minute) | Creates a time |
| getHour(), getMinute(), getSecond() | Gets parts of time |
| plusHours(n), plusMinutes(n), plusSeconds(n) | Adds time units |
| minusHours(n), etc. | Subtracts time units |
| isBefore(time), isAfter(time) | Compares times |
| parse("14:30:00") | Parses string to time |
| toSecondOfDay() | Returns total seconds from midnight |

Methods in LocalDateTime:

| **Method** | **Description** |
| --- | --- |
| now() | Current date-time |
| of(LocalDate, LocalTime) | Combine date and time |
| getYear(), getHour(), etc. | Access fields |
| plusDays(), plusHours(), etc. | Add time units |
| minusMinutes(), etc. | Subtract time units |
| toLocalDate(), toLocalTime() | Extract date/time |
| isBefore(datetime), isAfter(datetime) | Compare |
| parse("2025-07-30T14:30") | Parses string |

Methods in ZonedTime:

| **Method** | **Description** |
| --- | --- |
| now(ZoneId) | Current date-time in zone |
| of(LocalDateTime, ZoneId) | Create with timezone |
| getZone() | Returns ZoneId |
| withZoneSameInstant(zone) | Convert to other zone |
| toLocalDate(), toLocalTime() | Extract date/time |
| getOffset() | Time offset (e.g., +05:30) |
| parse() | Parse ISO 8601 string |

Methods in Period:

| **Method** | **Description** |
| --- | --- |
| ofYears(int years) | Creates a Period of given years |
| ofMonths(int months) | Creates a Period of given months |
| ofDays(int days) | Creates a Period of given days |
| of(int years, int months, int days) | Creates a Period with all units |
| getYears() | Returns number of years |
| getMonths() | Returns number of months |
| getDays() | Returns number of days |
| plusDays(long days) | Adds days to the period |
| minusMonths(long months) | Subtracts months from the period |
| isZero() | Checks if the period is zero |
| isNegative() | Checks if the period is negative |
| negated() | Returns the negative equivalent |
| between(LocalDate start, LocalDate end) | Returns Period between two dates |

**Methods in Hour:**

| **Method** | **Description** |
| --- | --- |
| ofHours(long hours) | Creates Duration in hours |
| ofMinutes(long minutes) | Creates Duration in minutes |
| ofSeconds(long seconds) | Creates Duration in seconds |
| ofMillis(long millis) | Creates Duration in milliseconds |
| between(Temporal start, Temporal end) | Gets duration between two LocalTime/LocalDateTime |
| toHours() | Converts to total hours |
| toMinutes() | Converts to total minutes |
| toMillis() | Converts to total milliseconds |
| toNanos() | Converts to total nanoseconds |
| isZero() | Checks if duration is zero |
| isNegative() | Checks if duration is negative |
| plus(Duration d) | Adds another duration |
| minus(Duration d) | Subtracts another duration |
| multipliedBy(long n) | Multiplies the duration |