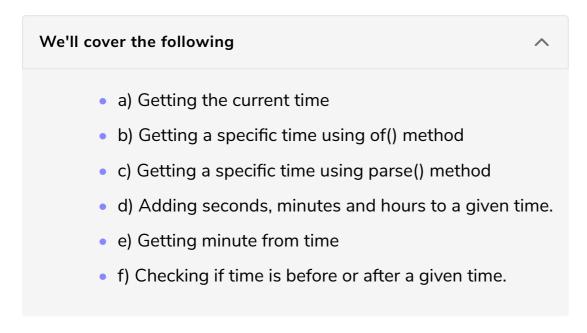
LocalTime

In this lesson, we will look at the LocalTime class.



As per JavaDocs, "LocalTime is an immutable date-time object that represents a time, often viewed as hour-minute-second. Time is represented to nanosecond precision. For example, the value "13:45.30.123456789" can be stored in a LocalTime".

In other words, the LocalTime represents time without a date. An instance of LocalTime can be created from the system clock or by using the now(), parse() and of() methods.

Let's look at some of the utilities provided by this class.

a) Getting the current time

We can get the current time by using the static <code>now()</code> method in the <code>LocalTime</code> class.

```
import java.time.LocalTime;

class DateTimeDemo {
    public static void main( String args[] ) {
        LocalTime time = LocalTime.now();
        System.out.println(time);
    }
}
```







b) Getting a specific time using of() method

We can get a specific time by using the static of() method in the LocalTime class. This method has three overloaded versions.

Each of them is shown in the example below.

```
import java.time.LocalTime;

class DateTimeDemo {
    public static void main(String args[]) {

        // of(int hour, int minute)
        LocalTime time = LocalTime.of(11, 25);
        System.out.println(time);

        // of(int hour, int minute, int second)
        time = LocalTime.of(11, 25, 03);
        System.out.println(time);

        // of(int hour, int minute, int second, int nanoOfSecond)
        time = LocalTime.of(11, 25, 04, 323);
        System.out.println(time);

    }
}
```

c) Getting a specific time using parse() method

We can get a specific time by using the static parse() method in the LocalTime class. This method has two overloaded versions.

Each of them is shown in the example below.

```
import java.time.LocalTime;
import java.time.format.DateTimeFormatter;

class DateTimeDemo {
    public static void main(String args[]) {

        // parse(CharSequence text)
        LocalTime time = LocalTime.parse("08:27");
        System.out.println(time);

        // parse(CharSequence text, DateTimeFormatter formatter)
        time = LocalTime.parse("08:27", DateTimeFormatter.ofPattern("HH:mm"));
        System.out.println(time);

}
```







d) Adding seconds, minutes and hours to a given time.

We can use a whole range of the addition operations to add seconds, minutes and hours to a given time.

```
import java.time.LocalTime;
import java.time.temporal.ChronoUnit;
class DateTimeDemo {
   public static void main(String args[]) {
        // Adding 4 seconds to the given time.
       LocalTime time = LocalTime.parse("12:54:53").plusSeconds(4);
       System.out.println(time);
       // Adding 10 minutes to the given time.
       time = LocalTime.parse("12:54:53").plusMinutes(10);
       System.out.println(time);
       // Adding 2 hours to the given time.
       time = LocalTime.parse("12:54:53").plusHours(2);
       System.out.println(time);
        // Adding 4 minutes to the given time.
       time = LocalTime.parse("12:54:53").plus(4, ChronoUnit.MINUTES);
       System.out.println(time);
```







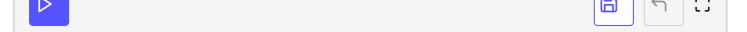
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e) Getting minute from time

We can get the value of minutes using getMinute() method.

```
import java.time.LocalTime;

class DateTimeDemo {
    public static void main( String args[] ) {
        int minute = LocalTime.parse("07:45").getMinute();
        System.out.println(minute);
    }
}
```



f) Checking if time is before or after a given time.

We can check if a time is before or past another given time by using the isBefore() and isAfter() method.

These are some of the important utilities of the LocalTime class. In the next lesson, we will look at the LocalDatetime class.