DateAndTime

1. Write a program to display today's date and the date after ten days.

**CODE:**

*import* java.time.LocalDate;

*public* class DateExample {

*public* *static* *void* main(String[] args) {

        LocalDate today = LocalDate.now();

        LocalDate afterTenDays = today.plusDays(10);

        System.*out*.println("Today's Date: " + today);

        System.*out*.println("Date After 10 Days: " + afterTenDays);

    }

}

**OUTPUT:**

Today's Date: 2025-07-25

Date After 10 Days: 2025-08-04

1. Write a program to find the date of next month second Sunday.

**CODE:**

*import* java.time.*\**;

*public* class SecondSunday {

*public* *static* *void* main(String[] args) {

        LocalDate today = LocalDate.now();

        LocalDate nextMonth = today.plusMonths(1);

        LocalDate date = nextMonth.withDayOfMonth(1);

*int* sundayCount = 0;

        while (true) {

            if (date.getDayOfWeek() == DayOfWeek.*SUNDAY*) {

                sundayCount++;

                if (sundayCount == 2) {

                    break;

                }

            }

            date = date.plusDays(1);

        }

        System.*out*.println("Second Sunday of next month: " + date);

    }

}

**OUTPUT:**

Second Sunday of next month: 2025-08-10.

1. Write a program to calculate your experience (no of years, no of months & no of days) in Wipro.

**CODE:**

*import* java.time.LocalDate;

*import* java.time.Period;

*public* class ExperienceCalculator {

*public* *static* *void* main(String[] args) {

        LocalDate joiningDate = LocalDate.of(2024, 3, 15);

        LocalDate today = LocalDate.now();

        Period experience = Period.between(joiningDate, today);

        System.*out*.println("Experience in Wipro:");

        System.*out*.println(experience.getYears() + " Years, "

                         + experience.getMonths() + " Months, "

                         + experience.getDays() + " Days");

    }

}

**OUTPUT:**

Experience in Wipro:

5 Years, 4 Months, 10 Days

1. Write a program to check whether the current year is a leap year.

**CODE:**

*import* java.time.Year;

*public* class LeapYearCheck {

*public* *static* *void* main(String[] args) {

*int* currentYear = Year.now().getValue();

*boolean* isLeap = Year.isLeap(currentYear);

        System.*out*.println("Current Year: " + currentYear);

        if (isLeap) {

            System.*out*.println("It is a Leap Year");

        } else {

            System.*out*.println("It is not a Leap Year");

        }

    }

}

**OUTPUT:**

Current Year: 2025

It is not a Leap Year

1. Write a program to display the current time and the time after 25 minutes.

**CODE:**

*import* java.time.LocalTime;

*import* java.time.format.DateTimeFormatter;

*public* class Next25Min {

*public* *static* *void* main(String[] args) {

        LocalTime currentTime = LocalTime.now();

        LocalTime after25Minutes = currentTime.plusMinutes(25);

        DateTimeFormatter formatter = DateTimeFormatter.ofPattern("HH:mm:ss");

        System.*out*.println("Current Time: " + currentTime.format(formatter));

        System.*out*.println("Time After 25 Minutes: " + after25Minutes.format(formatter));

    }

}

**OUTPUT:**

Current Time: 23:27:54

Time After 25 Minutes: 23:52:54

1. Write a program to display the current time and the time before 5 hours and 30 minutes.

**CODE:**

*import* java**.**time**.**LocalTime**;**

*import* java**.**time**.**format**.**DateTimeFormatter**;**

*public* class **TimeBefore**{

*public* *static* *void* main(String[] **args**) {

        LocalTime currentTime **=** LocalTime**.**now()**;**

        LocalTime beforeTime **=** currentTime**.**minusHours(5)**.**minusMinutes(30)**;**

        DateTimeFormatter formatter **=** DateTimeFormatter**.**ofPattern("HH:mm:ss")**;**

        System**.***out***.**println("Current Time: " **+** currentTime**.**format(formatter))**;**

        System**.***out***.**println("Time Before 5 Hours and 30 Minutes: " **+** beforeTime**.**format(formatter))**;**

    }

}

OUTPUT:

Current Time: 23:31:28

Time Before 5 Hours and 30 Minutes: 18:01:28