

**Hands-on No. : 10****Topic : Date and Time API -2****Date : 13-08-25****Solve the following problems**

Question No.	Question Detail
1	<ul style="list-style-type: none">a) Age Calculator: Write a program to calculate a person's age in years using their birthdate.b) End of Month Date: Get the last date of the current month using TemporalAdjusters.c) Custom Date Creation: Create a date using year, month, and day input from the user.d) Days Until Event: Calculate how many days are left until a given future date (e.g., New Year).e) Is It Weekend?: Check if today is a Saturday or Sunday.f) First Monday of Next Month: Find the first Monday of the next month.
2	<ul style="list-style-type: none">a) Midnight and Noon: Create two LocalTime objects — one for midnight and one for noon — and compare them.b) Time Formatter: Format the current time into 12-hour format with AM/PM.c) Schedule Alarm: Given a wake-up time and sleep duration, calculate the bedtime.d) Time Adjustment: Subtract 45 minutes from the current time and display it.
3	<ul style="list-style-type: none">a) Time Travel: Add 1 year, 3 months, and 7 days to the current LocalDateTime and display it.b) DateTime Difference: Calculate how many minutes or hours are between two LocalDateTime instances.c) Is Working Hour?: Given a meeting time, check whether it falls between 9 AM and 6 PM.
4	<ul style="list-style-type: none">a) Meeting Across Zones: If a meeting is scheduled at 10:00 AM IST, find the equivalent time in Europe/London.

It is going to be hard but, hard does not mean impossible.



	<ul style="list-style-type: none">b) Flight Duration: Given a flight departure time in Asia/Kolkata and arrival in America/New_York, calculate flight duration.c) Create ZoneId List: Display the available zone IDs supported in the system.
5	<ul style="list-style-type: none">a) Period Between Dates: Use Period to find the number of months and days between two dates.b) Duration Between Times: Use Duration to find seconds between two LocalTime objects.c) Birthday Countdown: Calculate the number of days until your next birthday using Period.d) Custom Date Formatting: Format a given date as Monday, 26 July 2025 using a custom pattern

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