

## Problem Statements for Practice

1. **Problem 1: Time Zones and ZonedDateTime** Write a program that displays the current time in different time zones:

- GMT (Greenwich Mean Time)
- IST (Indian Standard Time)
- PST (Pacific Standard Time)

**Hint:** Use `ZonedDateTime` and `ZoneId` to work with different time zones.

2. **Problem 2: Date Arithmetic** Create a program that:

- Takes a date input and adds 7 days, 1 month, and 2 years to it.
- Then subtracts 3 weeks from the result.

**Hint:** Use `LocalDate.plusDays()`, `plusMonths()`, `plusYears()`, and `minusWeeks()` methods.

3. **Problem 3: Date Formatting** Write a program that:

- Displays the current date in three different formats:
  - `dd/MM/yyyy`
  - `yyyy-MM-dd`
  - `EEE, MMM dd, yyyy`

**Hint:** Use `DateTimeFormatter` with custom patterns for date formatting.

4. **Problem 4: Date Comparison** Write a program that:

- Takes two date inputs and compares them to check if the first date is before, after, or the same as the second date.

**Hint:** Use `isBefore()`, `isAfter()`, and `isEqual()` methods from the `LocalDate`

class.