

## Task : Timezone

Create a timezone converter that takes a time in one timezone and converts it to another timezone.

```
package com.Day26;
import java.time.LocalDateTime;
import java.time.ZoneId;
import java.time.ZonedDateTime;
import java.time.format.DateTimeFormatter;
import java.util.Scanner;

public class TimezoneConverter {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Define the date-time format
        DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy-MM-dd HH:mm");

        // Read the input date-time and timezones from the user
        System.out.print("Enter the date-time (yyyy-MM-dd HH:mm): ");
        String dateTimeString = scanner.nextLine();
        LocalDateTime localDateTime = LocalDateTime.parse(dateTimeString, formatter);

        System.out.print("Enter the source timezone (e.g., America/New_York): ");
        String sourceTimezone = scanner.nextLine();
        ZoneId sourceZoneId = ZoneId.of(sourceTimezone);

        System.out.print("Enter the target timezone (e.g., Europe/London): ");
        String targetTimezone = scanner.nextLine();
        ZoneId targetZoneId = ZoneId.of(targetTimezone);

        // Convert the local date-time to the source timezone
        ZonedDateTime sourceZonedDateTime = ZonedDateTime.of(localDateTime,
sourceZoneId);

        // Convert the source timezone date-time to the target timezone
        ZonedDateTime targetZonedDateTime =
sourceZonedDateTime.withZoneSameInstant(targetZoneId);

        // Format and display the result
        String formattedTargetDateTime = targetZonedDateTime.format(formatter);
        System.out.println("Converted date-time in target timezone: " +
formattedTargetDateTime);
    }
}
```

