

1. Which class would you use to store your birthday in years, months, days, seconds, and nanoseconds?

-> We can use LocalDateTime class and along with Period class it returns the answer in terms of years, months, days, and nano seconds

2. Given a random date, how would you find the date of the previous Thursday?

-> We can use TemporalAdjusters class which then has previous() method which we can specify a specific day of the week("THURSDAY") and we can get the date of previous Thursday.

3. What is the difference between a ZoneId and a ZoneOffset?

-> ZoneId has a specific set of rules which it uses before converting a time specific to a zone, where ZoneOffset uses utc/greenwich time to set the offset in hours to convert in the local time zone.

4. How would you convert an Instant to a ZonedDateTime? How would you convert a ZonedDateTime to an Instant?

-> We can use ZoneDateTime class which has .ofInstant method to convert an Instant to a ZonedDateTime. Alternatively we can go from ZonedDateTime to Instant by using ChronoZonedDateTime interface's method toInstant method.

5. Write an example that, for a given year, reports the length of each month within that year.

->

```
Year y = Year.of("your year here");
for(int m = 0; m < Month.values().length(); i++){
    YearMonth yearMonth = YearMonth.of(y,m);
    System.out.println("Month length" + yearMonth[i]);
}
```

6. Write an example that, for a given month of the current year, lists all of the Mondays in that month.

->

```
Month m;
LocalDate date =
Year.now().atMonth(m).atDay(1).with(TemporalAdjusters.firstInMonth(DayOfWeek.MONDAY));
Month totalMonday = date.getMonth();
Int monthCount = 1;
do{
    date = date.with(TemporalAdjusters.next(DayOfWeek.MONDAY));
    totalMonday = date.getMonth();
    System.out.printf("totalMonday: " + dtotalMonday);
    mountCount++;
}while (mountCount != 12);
```

7. Write an example that tests whether a given date occurs on Friday the 13th.

```
TemporalAccessor d;  
if((d.get(ChronoField.DAY_OF_MONTH) == 13) &&  
    (d.get(ChronoField.DAY_OF_WEEK) == 5));  
    Return true;  
  
Else  
    Return false;
```