1. Which class would you use to store your birthday in

years, months, days, seconds, and nanoseconds?

LocalDateTime

Example:

LocalDateTime birthday = LocalDateTime.*of*(1997, *Month*.***DECEMBER***, 25, 6, 45, 11, 330012123);

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

previous Thursday?

TemporalAdjusters.previous(DayOfWeek.THURSDAY)

Example:

LocalDate date = LocalDate(1997, *12*, 25);

System.***out***.println(date.with(TemporalAdjusters.*previous*(*DayOfWeek*.***THURSDAY***)));

3. What is the difference between a ZoneId and a

ZoneOffset?

ZoneId describes a time-zone identifier, ZoneOffset describes the amount of time which a time-zone differs from UTC

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

How would you convert a ZonedDateTime to an Instant?

You can convert an Instant to a ZonedDateTime like so:

ZonedDateTime zoneDateTimeFromInstant = ZonedDateTime.*ofInstant*(Instant.*now*(), ZoneId.*systemDefault*());

ZoneId.systemDefault() can be replaced with any ZoneId, but the ZoneId is a required argument

You can convert a ZonedDateTime to an Instant like so:

Instant current = ZonedDateTime.*now*().toInstant();

5. Write an example that, for a given year, reports the

length of each month within that year.

for (*Month* month : *Month*.*values*()) {

YearMonth eachMonth = YearMonth.*of*(1997, month);

System.***out***.print(month + ":" + eachMonth.lengthOfMonth() + "\n");

}

6. Write an example that, for a given month of the current

year, lists all of the Mondays in that month.

LocalDate date = Year.*now*().atMonth(12).atDay(1).with(TemporalAdjusters.*firstInMonth*(*DayOfWeek*.***MONDAY***));

*Month* december = *Month*.***DECEMBER***;

*Month* current = date.getMonth();

while (current == december) {

System.***out***.print(date + "\n");

date = date.with(TemporalAdjusters.*next*(*DayOfWeek*.***MONDAY***));

current = date.getMonth();

}

7. Write an example that tests whether a given date occurs

on Friday the 13th.

public static boolean fridayThirteenth(LocalDate date) {

return ((date.get(*ChronoField*.***DAY\_OF\_MONTH***) == 13) &&

(date.get(*ChronoField*.***DAY\_OF\_WEEK***) == 5));

}