

Readings over Chapter 3, Questions on Monday October 9

In textbook:

3.1, 3.2, 3.3, 3.4, 3.6, 3.7, 3.8, 3.9, 3.10, 3.11, 3.12, 3.13, 3.14, 3.15, 3.16

You are not responsible for the particulars of the SimpleDate class.

Material covered in these chapter sections:

3.1 definitions of object reference, instance, object, instance variables, methods, members, encapsulation

3.2 using constructors to create objects, default constructor (also called no-args constructor)

3.3 calling methods

3.4 using object references, null reference

3.6 java class library : Java 8 API

3.7 to 3.16 describe classes from the class library. Take notes on the following topics in particular:

String - methods `length()`, `toUpperCase()`, `toLowerCase()`, `charAt(int index)`, `indexOf(String searchString)`, `indexOf(char searchCharacter)`, `substring(int startIndex, int endIndex)`, `substring(int startIndex)`

DecimalFormat - construct using a pattern String, `format(double value)`

Random - no-args constructor, `nextInt(int number)`

Scanner - construct using the `System.in` stream, methods `next()`, `nextLine()`, `nextInt()`, `nextDouble()`

Static methods and static variables - examples from the Math class, methods `abs()`, `min()`, `max()`, constants `PI` and `E`

Wrapper classes: Integer, Double, Character - `parseInt()` and `parseDouble()`

`JOptionPane()` static methods `showInputDialog()` and `showMessageDialog()`