

# *Java By Abstraction - Companion Notes*

## **Topic 5 – Control Structures**

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*see first Companion Notes for Legend JD, PT, Ex, etc*

Section 5.1 Selection; PT 5.1-5.6; Ex 5.1-5.5; JD 5.1-5.2

- discusses if statement, which is a core construct
- PT 5.1&5.2 identifies situations that can lead to must debugging frustration, so read these carefully
- sec 5.1.3 discusses relational expressions; this ties into the next topic, but also keep in mind that *any* boolean expression or method invocation with a boolean return can serve as the condition for an if statement
- ensure that you understand the point being made in PT 5.5
- fig 5.4 talks about operator precedence; we will discuss this in more depth in the next course topic (#6)
- the switch statement in JD 5.2 is an interesting curiosity, but not used all that often (you can ignore for now); the other JD (5.1) is important

Section 5.2 Iteration; PT 5.7-5.8; Ex 5.4-5.5; JD 5.3-5.4; IMD 5.1

- this section is also important
- PT 5.7 makes a key point!; ensure you understand this point
- while and do-while loops are covered JD 5.3, 5.4

Section 5.3 Applications; Ex 5.9; IMD 5.2

- 5.3.1 Exception-Free Input Validation – IMPORTANT
- 5.3.2 File I/O - IMPORTANT (hands-on practice is also key)