

Esc101

Fundamentals of Computing

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The Conditional Operator

- Ternary operator (conditional operator):
 - $(2 < 3) ? 6 : 7$
 - First operand is boolean, second and third have to be of the same “type”
 - If first operand is true, result is second operand
 - If first operand is false, result is third operand

Control Flow in Java

- Conditional execution: **if-else**
 - Example: checking divisibility
 - Conditional operator ($x ? y : z$) is a short-hand for simple if-else statements

Loops in Java

- Loops (repeated execution)
 - Example: String reversal, Euclid's GCD algorithm
 - **for** loop, **while** loop
 - More examples:
 - Digits of an integer (**while**)
 - Max digit in an integer (**while**)
 - All primes within 100 (**for**)