Imperative Lang, features -Ch7: Expressions and Assignment Statement Statement-level Control Structures. (Structured prog.) - Arith. expressions - already covered. (presidence Associativity 89.3 - Overloaded operators or + finteger odd. Strip cateriation in jova. L'extwise AHD low readability, address (reference of) error prone in coding - user defined overloaded operator. C++, C#, F#. (java-no). Compiler determines the operation based on operand types BA) Matrix Add (Matrix Mult (A, B), Matrix Mult (C, D)); = A &B & C(x)D overloaded matry mult/add. \$7.4 - Typo Conversions V schedy Covered VE - explicit type conversion - Coercion in oxpression auto type conversion ketween types (cast type casting) (in C-based Cayunges d: (int) float var F#: float (sum)

§7.6 Short-circuit Evaluation
CK+4/Java
11, & Short circuit evaluation of Boolean type 3 2nd operand is evaluated only if necessary
are short-circuit evaluated.

- Multiple Assignment - multiple target, multiple source 40 Perl, Ruby, Lua - (some lang's Support Multiple Assignment Perl (#first, \$second, \$therid) = (20, 40, 60); (\$first, \$second) = (\$ second, \$first): - exphange values.

[without using temp var

Chs. Syntax directed control structures
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goto - Structured programing (Syntax-derected Control Structures)
while for loops
block (i = final) block (i = final) Statement: Will (i = i+1;
Concrete Syntax For Statement > for (Assignment : expr: Assignment) Statement
optional
Abstract Syntax [wethout the Assignment, 2]
(by parser)
block Assignanti lesop
First Block
Li of final
statement Assigned 2
tel syntax
AST notation Assignment
et) Z=X+2+Y; = Supplefied
[Z] junary t
operator var benary

- ugslementateeri z loop Construct (ni Compiler)

- et While Exper do S

