## Type equivalence

- if one operand of one type can be substituted for another in an expon, without coexcion.

- Name requivalence

- Shucture requivalence

Name type equivalence

- means that two var. have equivalent types if they are defined either in the same declaration or in declarations that use the same type name.

structure type equivalences

means & var. have equivalent

means & var. have equivalent

types y their types have identical

structure

typaclef stack-pluseof int stack-element ppp (Stack +); int de = pop (my stack); typedet link shuct teell; link next last being struct \*cell p; shuck it cell q, r; - under structural equivaterce all Variables are type equivalent. under name équivalence; pent and last are type equivalent and P, 9 and 8 am type equivalent. Types of name equivalence strict name equivalence loose name equivalence loose typedet gtack-element int stack-element pop(stack +); int a = pop(mystack), typedet fahrenheit not typedet celcius int

fabrerbeit til celeius c; strict name equivalence a lang in which abased types are considered distinct i, it raises a type error loose name équivalence which aliases types are considered allows stack ansignment. c++ - use bosse nance equivalence trictive forms of same equivalence of types of constru -subtype -derived type. Derived typem) new type ie based on some previously defined type which + equivalent, tolthough it y have identical shuchou

perived types inheart all properties of the pasent types prod telesioned eg! type Celsius is new float; type Fahrenheit is new Float's Colognia hood simproed range constrained version of an Bubtype existing type type equivalent with pasent type. is Integer range o. 99; subtype small-type call for value Type conversion

explicit seq. by the programmes

to convert one type to another eg i ploat x = 6.31; Nong x = (10+) Y : Pype Coescion implicit conversion from a one type to another wethout informing user int x; short Y; Y = x ;