

Assignment statement

Form of the assignment statement
`<variable>= <expression>;`

How to execute, or carry out, an assignment
 Evaluate the `<expression>` and store its value in the `<variable>`.

memorize
this
definition!

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Initializing declaration

Form of initializing declaration, a combination of a declaration and an assignment of a value to it.

`<type> <variable>= <expression>;`

Equivalent to
`<type> <variable>;`
`<variable>= <expression>;`

Instead of
`int c;`
`c= 25;`
 write
`int c= 25;`

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Variable and expression types must match

`<variable>= <expression>;`

e.g. both **boolean**, or both **String**

byte	$-2^7 .. 2^7 - 1$	8 bits	$-128 .. 127$	narrower
short	$-2^{15} .. 2^{15} - 1$	16 bits		
int	$-2^{31} .. 2^{31} - 1$	32 bits		
long	$-2^{63} .. 2^{63} - 1$	64 bits		

float 32-bit real numbers
double 64-bit real numbers

Assigning a wider-type value to a narrower-type variable may lose information.
 How can 6000 be stored in a byte variable?

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