/

[Arithmetic Operators]

Description

**Division** is one of the four primary arithmetic operations. The operator / (slash) operates on two operands to produce the result.

Syntax

result = numerator / denominator;

Parameters

result: variable. Allowed data types: int, float, double, byte, short, long.  
numerator: variable or constant. Allowed data types: int, float, double, byte, short, long.  
denominator: **non zero** variable or constant. Allowed data types: int, float, double, byte, short, long.

Example Code

int a = 50;

int b = 10;

int c = 0;

c = a / b; // the variable 'c' gets a value of 5 after this statement is executed

Notes and Warnings

1. If one of the numbers (operands) are of the type float or of type double, floating point math will be used for the calculation.
2. If the operands are of float / double data type and the variable that stores the result is an integer, then only the integral part is stored and the fractional part of the number is lost.

float a = 55.5;

float b = 6.6;

int c = 0;

c = a / b; // the variable 'c' stores a value of 8 only as opposed to the expected result of 8.409