Assignment Statements & BEDMAS

Assignment Statements

Assignment statements are another way to change the value of a variable.

Syntax

```
variablename = expression;
/* assigns the value of the right hand side to the variable
on the left; the values must be of a compatible type */
```

Example

```
int a =3;
int b = 6;
int num;
num = a + b;
System.out.println(num);
a = 6 + 5 - num;
b = b + a;
System.out.println(a + a + num + "&" + b);
```

Output Memory

9

13&8

3 2	a(i)
6 8	b(i)
9	num(i)

BEDMAS

Recall the following order of operations

B Brackets ()

E Exponent no operator in Java (have to use a class method)

D Division /

Modulo %
M Multiplication *
A Addition +

S Subtraction

Integer vs Real Division

Integers: 15/4 = 3 // 4 goes into 15, 3 times **evenly**

Real numbers: 15.0 / 4.0 = 3.75

Modulo Operator %

The modulo operator gives the remainder portion of integer division.

Examples

```
18 % 7 = 4  // 7 goes twice into 18 with a remainder of 4
10 %2 = 0
27 %10 = 7
14 % 3 = 2
```