**Pre-increment and Post-increment in C/C++**

**Pre-increment operator**: A pre-increment operator is used to increment the value of a variable before using it in a expression. In the Pre-Increment, value is first incremented and then used inside the expression.

**Syntax:**

a = ++x;

Here, if the value of ‘x’ is 10 then value of ‘a’ will be 11 because the value of ‘x’ gets modified before using it in the expression.

**Post-increment operator**: A post-increment operator is used to increment the value of variable after executing expression completely in which post increment is used. In the Post-Increment, value is first used in a expression and then incremented.  
**Syntax:**

a = x++;

Here, suppose the value of ‘x’ is 10 then value of variable ‘b’ will be 10 because old value of ‘x’ is used.

**Various Variation of Arithmetic Instruction**

**a=a+1;**

**a+=1;**

**a++;**

**++a;**

**All are same.**











