

ARITHMETIC OPERATORS IN C++ :

+ , - , * , / , %

NUMERIC OPERANDS
(double, int)

int a, b;

$a \% b$

REMAINDER OF a upon division by b.

CONDITIONAL OPERATIONS

```

if (cond)
  stmt;
  stmt;
  ...
  stmt;
else
  stmt;
  stmt;
  ...
  stmt;

```

LOGICAL EXPRESSION
(i.e. bool)

i.e. true or false

```

if (cond) {
  stmt;
  ...
  stmt;
}

```

```

else {
  stmt;
  ...
}

```

```

}
stmt;
...

```

A list of statements in braces {...} is called a COMPOUND STATEMENT or Block

LOGICAL EXPRESSIONS

COMPARISON OPERATORS:

==	Comp. for EQ.
<	less than
<=	l.e.g.
>	g.t.
>=	g.e.
!=	not eq.

<u>EXAMPLE</u>	<u>VALUE</u>
1 == 2	false
1 < 2	true
1 <= 2	true
1 > 2	false
1 >= 2	false
1 != 2	true

[4]

Ex: int a=5, b=6, c=7, d=8;

(a+b) != (c+d)

evaluates to true

Logical Operators:

	++	Symbol	VAL.
AND	&&	Ex: (1<2) && (3>4)	false
OR		(1<2) (3>4)	true
NOT	!	!(1==2)	true

Ex: int a=1, b=2, c;

if (a==b)

c=3;

else

c=4;

if (c > b)

a = b - c;

else {

a = c - b;

b = 2 * b;

}

cout << a << " " << b << " " << c << endl;

WHAT IS PRINTED?

a b c
1 2 4
-2

OUTPUT:

-2 2 4