Logical Operators (Used for checking multiple cond)

✓ ① && → logical AND

✓ ② || → logical OR

③ ! → logical NOT

&&

Cond L	&&	Cond 1	Result
T		T	T
T		F	F
F		F	F
F		T	F

Cond 1	||	Cond 2	Res
T		T	T
T		F	T
F		T	T
F		F	F

① int a = 10, b = 5, c = 15, d;

d = a > b && b > c ;

1 && 0

0

d = a > b || b > c ;

1 || 0

1

ij

```
int a=10, b=10, c=10, d;
```

Non sense way!

```
d = a==b==c;
    1   ==10
    0
```

```
printf("%d", d);
```

Correct way!

```
d = a==b && b==c;
①   1    &&  1
```

```
int a;
```

Non sense way!

```
a = 10<5<3;
①   0<3
```

Correct way!

```
a = 10<5 && 5<3;
0   0       0
```

Precedence and Associativity of Operators

Gr 0: ( )

Gr: 1 → *, /, %

Gr: 2 → +, -

a + b * c
② ①

Gr: 3 → >, <, >=, <=

Gr: 4 → ==, !=

Gr: 5 → &&

Gr: 6 → ||

Gr: 7 → =

a / b * c
⟶

a = b = c ;
⟵

① a = b + c * d - e ;
④ ② ① ③

② a = b / c + d * e ;
④ ① ③ ②

(3) a = b > c - d / e * f ;
(5) (4) (3) (1) (2)

(4) x + y = a + b ; X

(5) a = b - c == d + e ;
(4) (1) (3) (2)

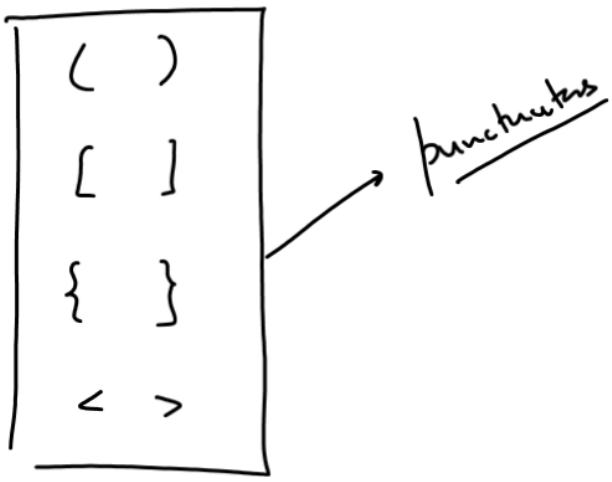
(6) a = b / c / d / e ;
(4) (1) (2) (3)

⑦ a = b * (c - d);
③ ② ①

⑧ a = (b+c) * (d - e);
④ ① ③ ②

⑨ a = b * (c + (d - e));
④ ③ ② ①

⑩ a = b * (c + d - e);
④ ③ ① ②



DEVELOPING BASIC PROGRAMS

Qn1. WAP to accept 3 integers from the user and caclulate and print their sum and average.

SAMPLE OUTPUT
==========
Enter 3 int:
3 4 5
Sum is 12
Average is 4.00

SAMPLE OUTPUT
==========
Enter 3 int:
3 4 6
Sum is 13
Average is 4.33