Evaluate the expressions.

1) $3 > 2$
2) $3 \geq 3$
3) $4+3 > 9$
4) $10+8 > 9$
5) $12 != 10$
6) $13 == 13$
7) $14 != 14$
8) $20 == 5*4$
9) $30 != 3+4-10$
10) $20 == 41/2$

```
Public static void main() {
    boolean x = 3>2;
    Syso(x);
}
```

Que) WAP to calculate simple interest using Premium, rate and time.

e.g.:
Premium = 20
rate = 5
time = 4
S.I = ?

Que) Evaluate expression.

$$= \frac{a * 2b + c}{a * (b+c)}$$

steps:-
- take input
- write expression
- print output

( ) parenthesis

$a = 2, b = 3, C = 4$

$$ans = \frac{2 \times 6 + 4}{2 \times (7)} = \frac{18}{14} = 1.-- = 1$$

Logical operators

&& → AND

|| → OR

! → NOT

→ AND (&&)

↳ It gives true when both exp. are true otherwise false.

Syntax:- (exp1 && exp2) → True/False

A	B	C
True	True	True
True	False	False
False	True	False
False	False	False

→ OR operator (||)

↳ If both exp. are giving false then final result will be false otherwise True

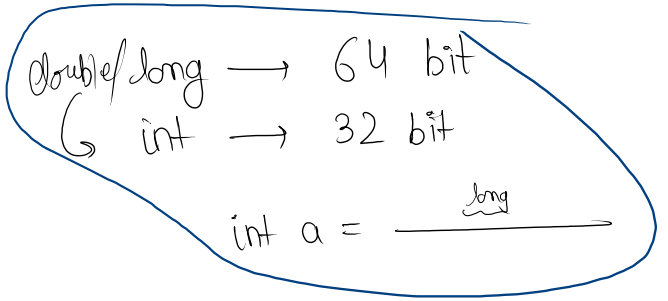
A	B	C
True	True	True
True	False	True
False	True	True
False	False	False

Syntax:-

(exp1 || exp2)

→ NOT (!) :- It will simply flip the result.

A	C
True	False
False	True



Ques WAP to input a 3 digit number

1) reverse the number

e.g., input = 123

output = 321 Hint :- use % and /

2) find sum of all 3 no.

3) find square of all 3 no.

```
int num = 123;

1) int num1 = num / 100;   // 1
2) int num2 = num % 100;   // 23
3) int num3 = num2 / 10;   // 2
4) int num4 = num2 % 10;   // 3

5) int ans = num4 * 100 + num3 * 10 + num1 * 1;
```

⇒ 123 % 100

```
   1
100 )123
    -100
     23   rem
```

```
3 * 100 =  300
2 * 10  =   20
1 * 1   = + 1
          ----
          321
```

```
boolean ex1 = 3 > 2;
System.out.println(ex1);

boolean ex2 = 3 >= 3;
System.out.println(ex2);

boolean ex3 = 4 + 3 > 9;
System.out.println(ex3);

boolean ex4 = 10 + 8 > 9;
System.out.println(ex4);

boolean ex5 = 12 != 10;
System.out.println(ex5);

boolean ex6 = 13 == 13;
System.out.println(ex6);

boolean ex7 = 14 != 14;
System.out.println(ex7);

boolean ex8 = 20 == 5 * 4;
System.out.println(ex8);

boolean ex9 = 30 != 3 + 4 - 10;
System.out.println(ex9);

boolean ex10 = 20 == 41 / 2;
System.out.println(ex10);
```

```java
Scanner scn = new Scanner(System.in);
System.out.println(x: "Enter Primium");
int p = scn.nextInt();
System.out.println(x: "Enter Rate");
int r = scn.nextInt();
System.out.println(x: "Enter Time");
int t = scn.nextInt();

int Simple_interest = (p * r * t) / 100;

System.out.println("Simple interest is : " + Simple_interest);
```

```java
// Scanner scn = new Scanner(System.in);
System.out.println(x: "Enter a, b and c respectively");
double a = scn.nextDouble();
double b = scn.nextDouble();
double c = scn.nextDouble();

double ans = (a * 2 * b + c) / (a * (b + c));

System.out.println("Answer is : " + ans);
```

```java
System.out.println(x: "Input a 3 digit number");
int num = scn.nextInt();

// main logic

int num1 = num / 100;   // first num
int num2 = num % 100;
int num3 = num2 / 10;   // second num
int num4 = num2 % 10;   // third num

int ans = num4 * 100 + num3 * 10 + num1;
System.out.println("Reverse no is " + ans);
```