# Nested if else

```
mandatory
                  all are optional
```

#### Grade the student 1

 $\sim$  marks:  $90+ \Rightarrow$  excellent  $\sim$  marks>80 , marks  $\Leftarrow 90 \Rightarrow 9000$   $\sim$  marks>70 , marks  $\Leftarrow 80 \Rightarrow$  fair  $\sim$  marks>60 , marks  $\Leftarrow 80 \Rightarrow$  meets expectations  $\sim$  marks>40 , marks  $\Leftarrow 80 \Rightarrow$  below par  $\sim$  otherwise  $\Rightarrow$  failed

```
public static void main(String[] args) {
                                                                  Scanner scn = new Scanner(System.in);
                                                                  int marks = scn.nextInt();
       System.out.println("good");
} else if ( marks > 70 && marks <= 80 ) {
    System.out.println("fair");
} else if ( marks > 60 && marks <= 70 ) {
    System.out.println("recorded to the state of the sta
                                                                             System.out.println("meets expectations");
                                                    } else if ( marks > 40 && marks <= 60 ) {
System.out.println("below par");
```

False

If 
$$(n > 30)$$
 {

Syso ("output 1");

If the syso ("output 2");

Syso ("output 2");

Syso ("output 3");

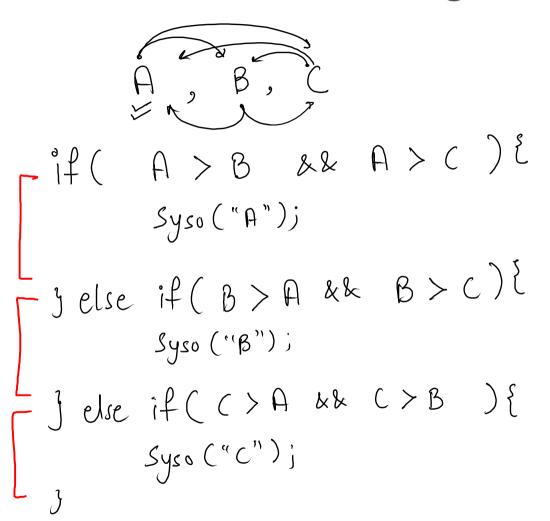
If the syso ("output 3");

Syso ("output 3");

Syso ("output 4");

Syso ("output 4");

### Print the oldest among three



## public class Solution {

```
public static void main(String[] args) {
                                                 \beta = 30, \beta = 20, C = 10
    Scanner scn = new Scanner(System.in);
    int A = scn.nextInt();
    int B = scn.nextInt();
    int C = scn.nextInt();
                                                 A>B, falce ~
  if (A > B && A > C) {
    System.out.println("A");
                                                  A>C, true ~
  _} else if ( B > A && B > C ) {
        System.out.println("B");
                                                  B>A, true, "B"
   _} else if ( <u>C > A && C > B</u>) {
        System.out.println("C");
```

### Rich Adult Young

age, salony

Take the age and salary of a person as an integer input,

If the age is above 40 then

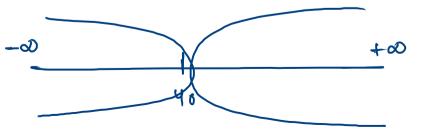
a. If the salary is greater than or equal to 30,000 then print You are rich and adult

b. Else print You are an adult

Else if age is less than or equal to 40

a. If the salary is greater than or equal to 12,000, then print You are rich and young

b. Else print You are young



```
psudo code
"if (age > 40) {

Sysu ( R and A);

Y else {

Sysu ( A);
   i else {
           if (salary >= 12000) {
    Syse (Rand Y);
    Selser
    Syso (Y);
```

### -> <u>Nested</u> if else

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int age = scn.nextInt();
    int salary = scn.nextInt();
    if ( age > 40 ) {
    if ( salary >= 30000 ) {
    System.out.println("You are rich and adult");
} else {
            System.out.println("You are an adult");
    } else {
       -if ( salary >= 12000 ) {
        System.out.println("You are rich and young");
            System.out.println("You are young");
```