<u> </u>	If	else	Jadder
syntex	:- - if (condit	Him L) {

// statement 1 Ly else if (condition 2) { // statement 2 L 3 clse if (condition 3) { // statement 3

- else {
// statement

1) if else ladder, only 1 condⁿ can get executed at a time

2) always go from to bottom 3) if cond" is mandatory, all others are optional 4) In if else ladder, we can

have only 1 if and only I else, but any no. of else if.

 $if(2) \neq (2)$ Syso ("a") 3 ese if (3 == 4) { Syso ("b") - j else if (5>2) { ((t)))ozy2 else if (7>2) [Syso("d")) j Use } Syso(@e")

0/2

Grade the student 1

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int marks = scn.nextInt();
    if ( marks > 90 ) {
        System.out.println("excellent");
   } else if ( marks > 80 && marks <= 90 ) {</pre>
        System.out.println("good");
  =} else if ( marks > 70 && marks <= 80 ) {
        System.out.println("fair");
   _} else if ( marks > 60 && marks <= 70 ) {
        System.out.println("meets expectations");
   <u>-</u>} else if ( marks > 40 && marks <= 60 ) {
        System.out.println("below par");
    } else {
        System.out.println("failed");
```

Print the oldest among three

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad B = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad B = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad B = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

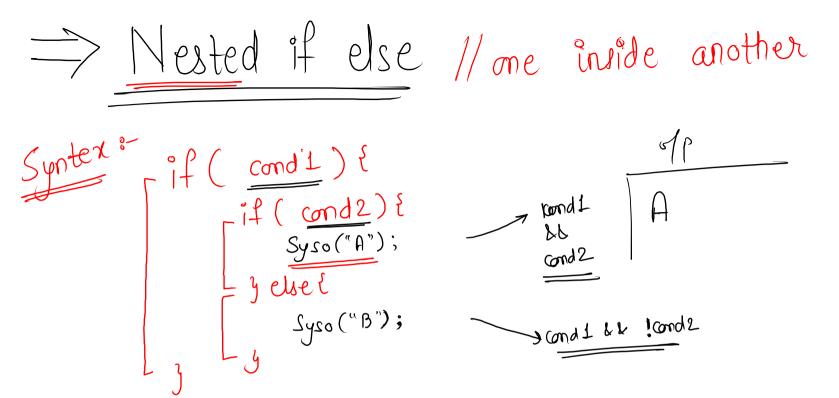
$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4}, \quad C = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4} = \frac{1}{4} = \frac{1}{4}$$

$$\frac{1}{4} = \frac{1}{4}$$

Print the oldest among three

```
public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
    int A = scn.nextInt();
    int B = scn.nextInt();
     int C = scn.nextInt();
   if ( A > B && A > C ) {
    System.out.println("A");
} else if ( B > A && B > C ) {
         System.out.println("B");
      else if ( C > A && C > B ) {
   System.out.println("C");
```



Rich Adult Young

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

If the **age** is **above 40** then

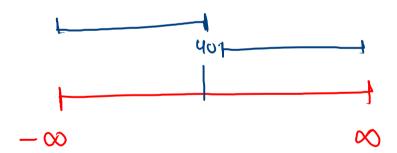
ਰ. If the salary is greater than or equal to 30,000 then print You are rich and adult

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**



code

```
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 ( age <= 40 ) {</pre>
        if ( salary >= 12000 ) {
            System.out.println("You are rich and young");
        } else {
            System.out.println("You are young");
```