

# High Sum or Low Sum

You will get two integer inputs x and y, you need to print "High Sum" if sum is greater than or equal to 100, and print "Low Sum" otherwise.

Sample Input 0

40  
70

i/p  $\left\{ \begin{array}{l} x \\ y \end{array} \right.$

$$x + y \geq 100$$

Sample Output 0

High Sum

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int x = scn.nextInt();
9         int y = scn.nextInt();
10
11         int sum = x + y;
12
13         if(sum >= 100){
14             System.out.println("High Sum");
15         }else{
16             System.out.println("Low Sum");
17         }
18     }
19 }
```

Conditional

Statements

if

else

else if

→ multiple conditions.

Que →  $\left\{ \begin{array}{ll} \text{one} & 1 \\ \text{two} & 2 \\ \text{not 1 \& 2} & \text{anything else} \end{array} \right.$

Task

Y/p →  $\left\{ \begin{array}{l} n \\ n == 1 \rightarrow \text{one} \\ n == 2 \rightarrow \text{two} \\ n \text{ anything else} \rightarrow \text{not 1 \& 2} \end{array} \right.$

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String[] args) {
5         Scanner scn = new Scanner(System.in);
6         int n = scn.nextInt();
7
8         if(n == 1){
9             System.out.println("one");
10        }else if(n == 2){
11            System.out.println("Two");
12        }
13        else{
14            System.out.println("not one and two");
15        }
16    }
17 }
18 }
19 }
```

\* if - else if - else - ladder

i/p (n)

1 → one

2 → two

3 → three

4 → four

5 → five

anything else → don't know

```
2 public class Main
3 {
4     public static void main(String[] args) {
5         Scanner scn = new Scanner(System.in);
6         int n = scn.nextInt();
7
8         if(n == 1){
9             System.out.println("one");
10        }else if(n == 2){
11            System.out.println("Two");
12        }else if(n == 3){
13            System.out.println("three");
14        }else if(n == 4){
15            System.out.println("four");
16        }else if(n == 5){
17            System.out.println("five");
18        }
19        else{
20            System.out.println("don't know");
21        }
22    }
23 }
24 }
```

```

2 public class Main
3 {
4     public static void main(String[] args) {
5         Scanner scn = new Scanner(System.in);
6         int n = scn.nextInt();
7
8         if(n == 1){
9             System.out.println("one");
10        }else if(n == 2){
11            System.out.println("Two");
12        }else if(n == 3){
13            System.out.println("three");
14        }else if(n == 4){
15            System.out.println("four");
16        }else if(n == 5){
17            System.out.println("five");
18        }
19        else{
20            System.out.println("don't know");
21        }
22    }
23 }
24 }

```

multiple else if → (Yes)

can you use only else → (No)

can you use only else if → (No)

can you use only if → (Yes)

Can we use two if-?

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String[] args) {
5         Scanner scn = new Scanner(System.in);
6         int n = scn.nextInt();
7
8         if(n < 10){
9             System.out.println("Less than 10");
10        }
11        if(n == 2){
12            System.out.println("Two");
13        }else{
14            System.out.println("DON't know");
15        }
16    }
17 }
18 }
```

less than 10  
Two

# Grade the student 1

You are given marks of a student as an integer input. You need to print according to the following rules: 1 for marks above 90, print excellent. 2 for marks above 80 and less than equal to 90, print good. 3 for marks above 70 and less than equal to 80, print fair. 4 for marks above 60 and less than equal to 70, print meets expectations. 5 for marks above 40 and less than equal to 60, print below par. 6 print failed if none of the above conditions follow.

Sample Input 0

92

Sample Output 0

excellent

$i/p \rightarrow$  marks

3.  $> 70$

4.  $> 60$

5.  $> 40$

6. else

1.  $\text{marks} > 90$   
excellent.

2.  $\text{marks} > 80$   $\text{marks} \leq 90$   
good.

$\leq 80 \rightarrow$  fair

$\leq 70 \rightarrow$  meets expect...

$\leq 60$  below par  
failed.

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int marks = scn.nextInt();
9
10        if(marks > 90){
11            System.out.println("excellent");
12        }else if(marks > 80){
13            System.out.println("good");
14        }else if(marks > 70){
15            System.out.println("fair");
16        }else if(marks > 60){
17            System.out.println("meets expectations");
18        }else if(marks > 40){
19            System.out.println("below par");
20        }else{
21            System.out.println("failed");
22        }
23    }
24 }
```

# Print Bonus

Problem

Submissions

Leaderboard

Discussions

$$\text{Bonus} = \text{sal} * \left( \frac{5}{100} \right)$$

$$\text{yos} > 5$$

The bonus in a company is given by  $\text{Bonus} = \text{Salary} * (5 / 100)$ . A company decided to give a bonus of 5% to employees if his/her years of service is more than 5 years. Ask user for their salary and year of service and print the net bonus amount. If the years of service is less than or equal to 5, print 0, otherwise print Bonus calculated.

Sample Input 0

20000  
6

Sample Output 0

1000

i/p {  
sal  
yos

if  $\rightarrow \text{yos} > 5$   
 $\hookrightarrow 5\%$

else

$\text{yos} \leq 5$   
 $\hookrightarrow 0$

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int sal = scn.nextInt();
9         int yos = scn.nextInt();
10
11         if(yos > 5){
12             System.out.println((sal*5)/100);
13         }else{
14             System.out.println("0");
15         }
16     }
17 }
18 }
```

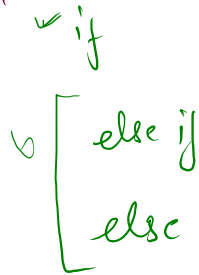


Nested if - else.

if ( )  
{



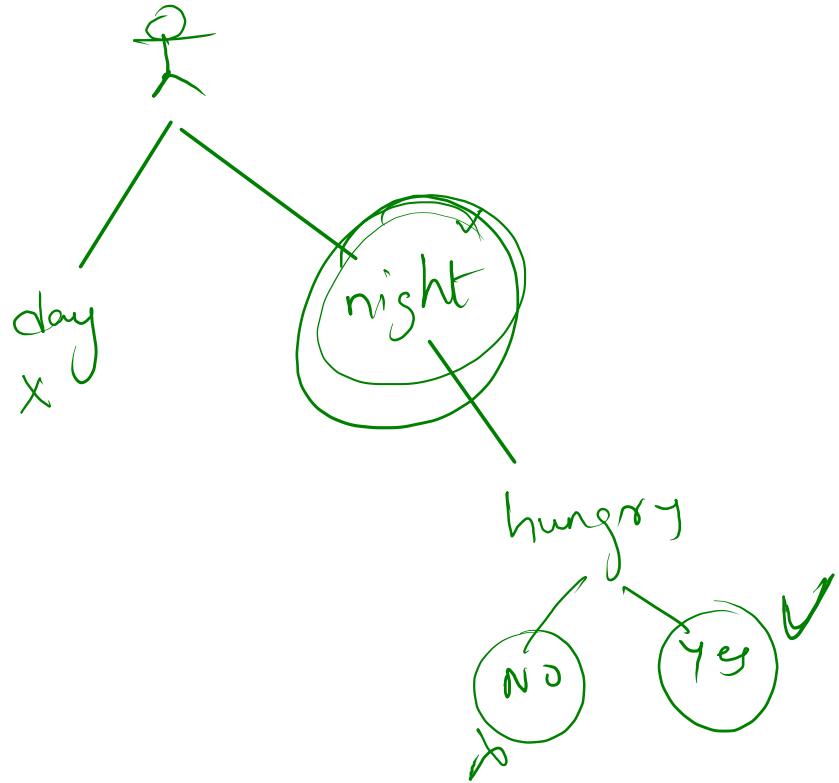
}  
else {



}

if (day) → nothing  
else → eat

he will eat only  
in night & only if  
he is hungry.



# Print the oldest among three

Problem	Submissions	Leaderboard	Discussions
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There are three friends A, B, C. You will be given the **ages** of these three friends as an integer input, you have to print **the same of the oldest friend among them**.

eg<sup>1</sup>.

A	B	C
10	20	30

✓p {

C

eg<sup>2</sup>.

A	B	C
7	18	6

ans = ?

B

Language: Java 8

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int A = scn.nextInt();
9         int B = scn.nextInt();
10        int C = scn.nextInt();
11
12        if(A > B){
13            if(A > C){
14                System.out.println("A");
15            }
16            else{
17                System.out.println("C");
18            }
19        }
20        else{ //else -> A cannot be the answer
21            if(B > C){
22                System.out.println("B");
23            }
24            else{
25                System.out.println("C");
26            }
27        }
28    }
29 }
```

dry run

pen paper

A	B	C
3	8	1
5	7	3
2	9	1
6	7	2

$$= \frac{200 \times (5/100)}{0.05}$$

$$5 \times 2$$

$$200 \times 0 = 0$$

$$1000 / 100 = 100$$