

Revision.

ip

double

%

$$ld = n \% 10$$

Add Last Digits

You will be given two numbers of int data-type as input, and you have to print the sum of their last digits as output.

Test Case 1:

Given Inputs: 2357 48986

Expected Output: 13

Sample Input 0

23456
9873

Sample Output 0

9

Question.

i/p { $x = 23456$
 $y = 9873$

{ $n \% 10$

o/p { 9

$n = 12345 \quad \% 10 =$

1234

10) $\overline{12345}$

10

23

20

34

30

45

40

5

```
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 ldx = x % 10;
12         int ldy = y % 10;
13
14         System.out.println(ldx + ldy);
15     }
16 }
```

Conditional Statements.

Syntax.

if → U

```
if ( day. condition )  
{  
    sun rise  
}  
else {  
    sunset  
}
```

keywords → reserved by java.
↳ variable name X

assignment operator

=

$L = R$

$\text{age} = 52$

equal to (==)

10 == 10

```
1
2 public class Main
3 {
4     public static void main(String[] args) {
5         int val = 12;
6
7
8
9         if(val == 1){
10             System.out.println("one");
11         }
12         else{
13             System.out.println("not one");
14         }
15
16     }
17 }
18
```

Greater than 100 or not

Problem

Submissions

Leaderboard

Discussions

You will be given an integer as input, you have to print ~~true~~ if the number is greater than 100, and ~~false~~ otherwise.

Sample Input 0

120

Sample Output 0

True

i/p { x }

eg,

$x = 500$

$500 > 100$

$x > 100$

→ True

eg $x = 80$

$x > 100$

$80 > 100$ ✗
False

else False.

```
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
10        if(x > 100){
11            System.out.println("True");
12        }else{
13            System.out.println("False");
14        }
15    }
16 }
17 }
```


You will be given four integer inputs x, y, z, w. Print True if x*y is equal to z*w and False otherwise.

Sample Input 0

5
8
10
4

Sample Output 0

True

i/p

x
y
z
w

$$\frac{40}{5 \times 8}$$

$$= 10 \times 4$$

True

Constraints

$$-2^{31} \leq x, y, z, w \leq 2^{31} - 1$$

$$-2^{31} \leq x \quad y \quad z \quad w \leq 2^{31} - 1$$

```

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        int z = scn.nextInt();
11        int w = scn.nextInt();
12
13        if(x * y == z * w){
14            System.out.println("True");
15        }else{
16            System.out.println("False");
17        }
18
19    }
20 }
```

Even.

$$n = (24)$$

$$\begin{array}{r} 12 \\ 2 \overline{) 24} \\ \underline{24} \\ 0 \end{array} \checkmark \rightarrow \text{even.}$$

(odd)

$$\begin{array}{r} 8 \\ 2 \overline{) 17} \\ \underline{16} \\ 1 \end{array} \rightarrow \text{odd}$$

$$n = 5$$

$$2 \sqrt[2]{\frac{5}{4}}$$

$$\overline{1}$$

odd

$$\%$$

Even or not

Problem

Submissions

Leaderboard

Discussions

You have to take an integer as input and print True if it is an even number and False otherwise.

eg1.

Sample Input 0

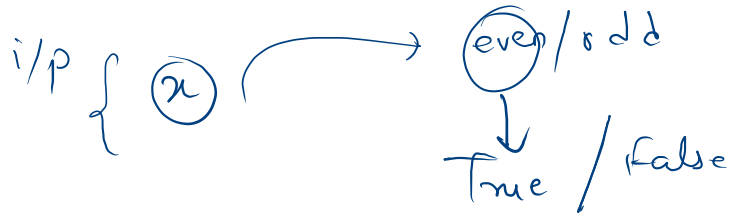
22

Sample Output 0

True

Explanation 0

eg2. 21



```
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         if(x % 2 == 0){
10             //Even
11             System.out.println("True");
12         }else{
13             //Odd
14             System.out.println("False");
15         }
16     }
17 }
```

Operators

1. arith. $\Rightarrow + - / * \%$

2. comparison operator \Rightarrow

$\left\{ \begin{array}{l} < \rightarrow \text{less than} \\ > \rightarrow \text{greater than} \\ \leq \rightarrow \text{less than equal to} \\ \geq \\ == \\ != \end{array} \right.$

Sum is less than 150 or not.

Problem

Submissions

Leaderboard

Discussions

∞

You will be given three integer inputs x, y, z. You have to find the sum of these inputs. Print true if the sum is less than 150 and false otherwise.

Sample Input 0

20
30
50

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

$x + y + z < 150$
↪ True.

Sample Output 0

True

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 x = scn.nextInt();
9         int y = scn.nextInt();
10        int z = scn.nextInt();
11
12        if(x + y + z < 150){
13            System.out.println("True");
14        }else{
15            System.out.println("False");
16        }
17    }
18 }
```

Adult or not 1

Problem

Submissions

Leaderboard

Discussions

You will be given the age of a person as an integer input, you need to print "Adult" if the age is greater than or equal to 18 and print "Below age" if the age is below 18.

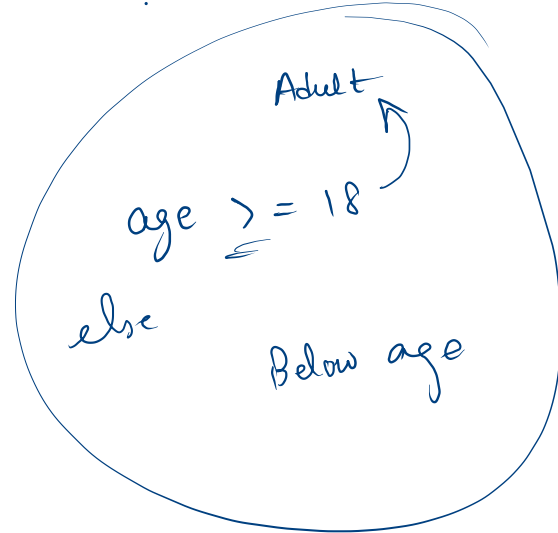
Sample Input 0

20

Sample Output 0

Adult

i/p { age



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 age = scn.nextInt();
9         if(age >= 18){
10             System.out.println("Adult");
11         }else{
12             System.out.println("Below age");
13         }
14     }
15 }
```


Shop Discount

Problem

Submissions

Leaderboard

Discussions

A shop will give a discount of 10% on the total cost if the cost of the quantity purchased is more than 1000. Ask user for the number of units b. Suppose, one unit will cost 100. c. Judge and print total cost for the user in the integer format.

Sample Input 1

10

Sample Output 1

1000

Sample Input 2

9

Sample Output 2

990

Sample Input 3

11

Sample Output 3

990

10 percent

if qty

1 qty \rightarrow ₹100

eg1.

qty = 10

cost

1 qty = 100

10 qty = 1000

cost > 1000

\rightarrow discount

eg2.

qty = 9

1 qty = 100

9 qty = 900

cost > 1000

eg3.

qty = 11

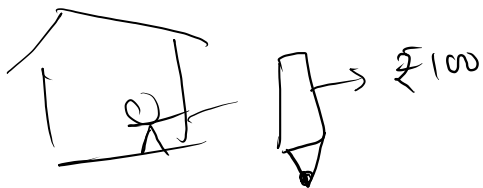
cost = 1100

cost > 1000

$\frac{10}{100} \times 1100$

= 110

1100 - 110 = 990



cost = ?

$$120 \times 100 = \underline{\underline{12000}}$$

> 10000
10% discount



6 pen →

$$\begin{matrix} \cancel{600} & & \cancel{1000} \\ 600 & > & 1000 \\ & 600 & \end{matrix}$$

$$\frac{10}{100} \times 12000 = 1200$$

$$12000 - 1200$$

$$= \underline{\underline{10800}}$$

$$> 10000$$

eg. qty=6

Submitted Code

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
9         ✓ int qty = scn.nextInt();
10        int cost = qty * 100;
11
12        if(cost > 1000){           //discount
13            cost = cost - (cost/10);
14        }
15        System.out.println(cost);
16    }
17 }
```

qty=6

cost = 600

cost > 1000

$$\begin{aligned} \text{qty} &= 6 \\ \text{cost} &= 600 \quad (600) \end{aligned}$$

$$600 > 1000$$

```
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
9         int qty = scn.nextInt();
10        int cost = qty * 100;
11
12        if(cost > 1000){           //discount
13            cost = cost - (cost/10);
14        }else{
15            cost = cost;
16        }
17        System.out.println(cost);
18    }
19 }
```

$$\text{qty} = \underline{\underline{12}}$$

$$\text{cost} = \underline{1200}$$

$$(1200 > 1000) \checkmark$$

$$\text{cost} = \text{cost} - \frac{\text{cost}}{10}$$

$$= 1200 - \frac{1200}{10} = 1080$$

10% of cost

$$\frac{10}{100} \times \text{cost} = \frac{\text{cost}}{10}$$

```
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
9         int qty = scn.nextInt();
10        int cost = qty * 100;
11
12        if(cost > 1000){           //discount
13            cost = cost - (cost/10);
14        }else{
15            cost = cost;
16        }
17        System.out.println(cost);
18    }
19 }
```