

ASSUME CS:CODE

CODE SEGMENT

START:MOV BX, 1234H

MOV CX, 7698H

MOV AL, BL ; AL = 34H

ADD AL, CL ; AL = 34H + 98H = CCH

DAA ; AL becomes 32H, CF = 1

MOV DL, AL

MOV AL, BH ; AL = 12H

ADC AL, CH ; AL = 12H + 76H + 1 = 89H

DAA ; AL stays 89H

MOV DH, AL ; DH = 89H

INT 21H

CODE ENDS

END START

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Method and examples

Method

1. BCD Addition

BCD Addition

Number-1 :

1234

Number-2 :

7698

Find

Random

Solution

Help

BCD Addition calculator

1. 984, 599

2. 599, 015

3. 983, 812

4. 983, 187

5. 24362, 68425

6. 243 62, 684 25

Example

11:15
16-09-2025



For 1234 and 7698, Find BCD Addition

Solution:

1234 + 7698 BCD addition (Here we have consider this numbers as decimal value)

+ Steps for BCD addition

Add 1234 and 7698 using BCD addition

BCD code for 1234 : 0001 0010 0011 0100

BCD code for 7698 : 0111 0110 1001 1000

Addition : 1000 1000 1100 1100

If Invalid BCD then add 6 : 0110 0110

Addition : 1000 1000 10010 10010

Remaining bits except carry : 1000 1000 0010 0010

Carry : 1 1

Addition : 1000 1001 0011 0010

BCD value : 8 9 3 2

So final answer of BCD addition is 8932

Solution provided by AtoZmath.com

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Method and examples

Method

BCD Addition

Number-1 :

Number-2 :

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BCD Addition calculator

- 1. 984, 599
- 2. 599, 015
- 3. 983, 812
- 4. 983, 187
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- 6. 243 62, 684 25

—Example

That's the Expedia edge™



1234 + 1111 BCD addition (Here we have consider this numbers as decimal value)

Add 1234 and 1111 using BCD addition

BCD code for 1111 : 0001 0001 0001 0001

BCD value : 2 3 4 5

So final answer of BCD addition is 2345

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