

# Codes Explorer

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December 25, 2016 - 8051

## 8051 Program to add two 16 bit Numbers (AT89C51) Microcontroller



8051 Program to add two 16 bit Numbers

Below Code is Compiled and Verified in Keil uVision 3.

The .asm file is given below after the code. For clarifications and suggestion comment in the comment section

```
; 8051 ASSEMBLY CODE -- CODESEXPLORER BLOG
; ALP TO ADD TWO 16 BIT NUMBER
; BELOW CODE ADDS AB20H + 65DE = 110FE WITH CAR
```



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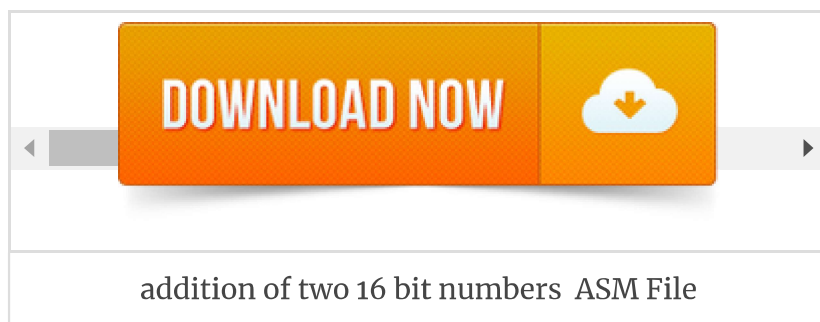
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```

ORG 0000H
CLR C      ;MAKE CY=0
MOV A,#020H ;LOWER BYTE OF OPERAND 1 IN A
ADD A,#0DEH ;ADD LOWER BYTE OF OPERAND 2 WITH
MOV R1,A   ;STORES LSB OF RESULT IN R1
MOV A,#65H ;HIGHER BYTE OF OPERAND 2 IN A
ADDC A,#0ABH ; ADD WITH HIGHER BYTE OF OPERAND
MOV R0,A    ;STORES MSB OF RESULT IN R0
END

```

Please Click on link below to Download Assembly Source Code



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## 3 thoughts on “8051 Program to add two 16 bit Numbers (AT89C51) Microcontroller”



**Abhay Kagalkar** says:

*July 24, 2017 at 4:20 am*

How may i help you?

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