

File Reset Assembler Debug Help



Registers

A 03
BC 06 03
DE 02 00
HL 00 00
PSW 00 00
PC 42 1D
SP FF FF
nt-Reg 00

Flag

S 1
Z 0
AC 0
P 0
C 1

Decimal - Hex Conversion

Decimal Hex
0 0
To Hex To Dec

I/O Ports

0 - + 00
Update Port Value

Memory

0 - + 00
Update Memory

Load me at

```

1  START:  NOP      ; No operation
2          LDA 8500  ; Load dividend from memory 8500 into Accumulator (A)
3          MOV B, A  ; Move A to B (B = dividend)
4          LDA 8501  ; Load divisor from memory 8501 into Accumulator (A)
5          MOV D, A  ; Move A to D (D = divisor)
6          MVI C, 00H ; Initialize quotient C = 0
7          MOV A, B  ; Load dividend back into A
8
9  LOOP1:  CMP D      ; Compare A (dividend) with D (divisor)
10         JC END_DIV ; If A < D, jump to END_DIV (division complete)
11         SUB D      ; A = A - D (subtract divisor from dividend)
12         INR C      ; Increment quotient counter
13         JMP LOOP1  ; Repeat loop
14
15  END_DIV: STA 8502  ; Store remainder in memory 8502
16         MOV A, C    ; Move quotient to A
17         STA 8503    ; Store quotient in memory 8503
18         RST 1       ; Restart or interrupt service
19         HLT         ; Halt execution

```

Data Stack KeyPad Memory I/O Ports

Start 8500

OK

Address (Hex)	Address	Data
2134	8500	6
2135	8501	2
2136	8502	0
2137	8503	3
2138	8504	0
2139	8505	0
213A	8506	0
213B	8507	0
213C	8508	0
213D	8509	0
213E	8510	0
213F	8511	0
2140	8512	0
2141	8513	0

Line No Assembler Message

0 Program assembled successfully