

Two 8 bit addition program:

The screenshot shows an 8085 assembly simulator interface. The main window displays the following assembly code:

```
1 LDA 0909
2 MOV B,A
3 LDA 0302
4 ADD B
5 STA 0304
6 HLT
```

The registers window shows the following values:

Register	Value
A	09
BC	03 00
DE	00 00
HL	00 00
PSW	00 00
PC	42 0C
SP	FF FF
Int-Reg	00

The flags window shows the following values:

Flag	Value
S	0
Z	0
AC	0
P	1
C	0

The memory window shows the following values:

Address (Hex)	Address	Data
08FC	2300	3
08FD	2301	0
08FE	2302	6
08FF	2303	0
0900	2304	9
0901	2305	0
0902	2306	0
0903	2307	0
0904	2308	0
0905	2309	0
0906	2310	0
0907	2311	0
0908	2312	0
0909	2313	0
090A	2314	0
090B	2315	0
090C	2316	0
090D	2317	0

The I/O Ports window shows the following values:

Port	Value
0	00

The Memory window shows the following values:

Address	Value
0	00

The Assembler Message window shows the following message:

```
0 Program assembled successfully
```