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Write an assembly language program for addition of two-8bit number with carry in 8085 microprocessor.

Program:

```
MVI C,00
MVI A,0FFH
MVI B,083H
ADD B
JNC L
INR C
L: STA 2050
MOV A,C
STA 2051
HLT
```

Observation:

INPUT:

$A = (FF)_{16} = (255)_{10}$, $B = (83)_{16} = (131)_{10}$

OUTPUT:

$A+B=255+131=(386)_{10} = (182)_{16}$

$(82)_{16} = (130)_{10}$

$(1)_{16} = (1)_{10}$

Result:

Memory Location	Data value
2048	255
2049	131
2050	130
2051	01