Write an assembly language program of fibonacci series in 8085 microprocessor

```
LXI H,3050
MVI D,10   ; D is counter (D=10)
MVI B,00   ; B=00
MVI C,01   ; C=01
MOV M,B   ; Copy the content of B at memory location 3050 that is 00
INX H       ; increment the HL pair that is 3051
MOV M,C   ; Copy the content of C at memory location 3051 that is 01
LOOP: MOV A,B  ; now A=B =00
ADD C        ;  A=A+C  => A=0+1=1
MOV B,C    ; B=C=> 1
MOV C,A    ;  C=A=>1
INX H        ; increment the HL pair that is 3052
MOV M,A  ;  Copy the content of A at memory location 3052 that is 01
DCR D        ; Decrement counter that become 9
JNZ LOOP   ; go to the LOOP  if value of counter is not zero
HLT           ; terminate the program execution if counter become  0
```
Result:

Memory Location	Data value
3050	**0**
3051	**1**
3052	**1**
3053	**2**
3054	**3**
3055	**5**
3056	**8**
3057	**13**
3058	**21**
3059	**34**