18) **single and multiple segment programs**

- contains >=1 segments;

- 4(6) segments active at one time

NEAR procedure: IP, state register -> saved on stack; CS remains untouched, not saved

FAR procedure: IP, CS, state register -> saved on stack;

Example:

STCK SEGMENT PARA STACK ‘stack’

DB 64 DUP (“my\_stack”)

STCK ENDS

DATA1 SEGMENT PARA PUBLIC ‘data’

; data definitions

DATA1 ENDS

COD1 SEGMENT PARA PUBLIC ‘code’

MAIN PROC FAR

ASSUME CS: COD1, DS:DATA1, SS:STCK

PUSH DS

XOR AX,AX

PUSH AX

MOV AX,DATA1

MOV DS,AX

RET

MAIN ENDP

COD1 ENDS

END MAIN