;Soliman Sean

;Comp Arch 416

;Chapter 5 - problem 27

;

;(with + length)\*2

;width = some input number

;length = some input number

;perim = calculation

;

BR main

width: .BLOCK 2

length: .BLOCK 2

perim: .BLOCK 2 ;scanf("%d%d",&width,&length)

;

main: DECI width,d ;decimal input into var width

DECI length,d ;decimal input into var length

LDWA width,d ;load var, width

ADDA length,d ;width + length

ASLA ;(width + lenght)\*2

STWA perim,d ;perim = (width + lenght)\*2

STRO msg1,d ;string out defined msg1

DECO width,d ;decimal output for var(width) value

LDBA "\n",i ;load byte newline char

STBA charOut,d ;store byte to output

STRO msg2,d ;string out defined msg2

DECO length,d ;decimal output for var (length) value

LDBA "\n",i ;load byte newline char

STBA charOut,d ;store byte to output

STRO msg3,d ;string out defined msg3

DECO perim,d ;decimal output for var (perim) value

LDBA "\n",i ;load byte newline char

STBA charOut,d ;store byte to output

STOP

msg1: .ASCII "width = \x00"

msg2: .ASCII "length = \x00"

msg3: .ASCII "perim = \x00"

.END

