8/4/20

CPE 185

Homework 8

1.

- (a) PROGSI.ASM(17): warning A4012: line number information for segment without class 'CODE': cseg. CodeView cannot process modules with code in segments with class names that do not end with "CODE."
- (b) LINK: warning L4055: start address not equal to 0x100 for /TINY. COM programs (/TINY memory model) must start at 0100H.
- (c) PROG51 .ASM(23): error ,42006: undefined symbol :eOOh. Assembler "thinks" this number is a label.
- (d) Program assembles without error. However, when run, the output screen is blank. The wrong interrupt (number 10 instead of 16) is being called.
- (e) PROG51 .ASM(27): error A2006: undefined symbol : IIIA. This symbol is not defined anywhere in the program
- (f) PROG51 .ASM(31): fatal error A101 0: unmatched block nesting : cseg. Assembler cannot find the end of the segment.
- (g) LINK :warning L4055: start address not equal to 0x100 for /TINY. Linker cannot find a starting address.
- (h) 102 errors! PROG51 .ASM(30): error A2046: missing single or double quotation mark in string. PROG51 .ASM(30): error A2039: line too long.

			cseg	segment	'Code'
			assum	e cs:cseg,	ds:cseg, ss:cseg, es:cseg
			org	100h	;Leave room for PSP
0100	B4 00	start:	mov a	ah,0	;BIOS service 0
0102	B0 02		mov a	1,2	;Video mode 2
0104	CD 10		int 1	10h	;Set video mode and clear screen
0106	B8 0920		mov a	ax,0920h	;Service 9, ASCII space
0109	B3 1A		mov h	ol,1ah	;Bright green on blue
010B	B9 07C8		mov o	ex,7c8h	;Fill screen
010E	CD 10		int 1	10h	;Set screen color
0110	B4 02		mov a	ah,2	;BIOS service 2
0112	BA 0A00		mov o	dx,0a00h	;Row 10, column 0
0115	B7 00		mov h	oh,0	;Page 0
0117	CD 10		int 1	10h	;Set cursor
0119	B4 0E		mov a	ah,0eh	;BIOS servce OE
011B	B0 00		mov a	al,0	;First character is 0
011D	CD 10	A1:	int 1	10h	;Print character
011F	FE CO		inc a	al	; Next
0121	3C 80		cmp a	al,80h	;Done?
0123	75 F8		jnz <i>l</i>	A1	;No: loop again
0125	CD 20		int 2	20h	;Yes: back to DOS
0127			cseg e	ends	
			end s	start	

service 0; Video mode 2; Set video mode and clear screen; Service 9, ASCII space; Bright green on blue; Fill screen; Set screen color; BIOS service 2; Row 10, column 0; Page 0; Set cursor; BIOS service OE; First character is 0; Print character; Next; Done?; No: loop again; Yes: back to DOS