

Assignment Three

12. (a) MOV AX, 27 (b) MOV AL, 97F (c) MOV DS, 98F2 (d) MOV CX, 397 (e) MOV SI, 9516
(f) MOV CS, 3490 (g) MOV DS, BX (h) MOV BX, CS (i) MOV CH, AX (j) MOV AX, 23FB9 (k) MOV CS, BH
(l) MOV AX, DL

Reason: (c): Immediate numbers can't be moved to segment registers

(f), (h), (k): Data can be moved among all registers except CS, IP

(b), (i), (j), (l): The word length of destination and source should be the same.

14. (a) 3499H:2500H

(b) Physical address: 36E90H

(c) Lower bound: 34990H Upper bound: 4498FH

19. No. Value should be: 37770H

31. (a) SS (b) DS (c) CS (d) DS (e) SS (f) DS

33. (a) CF: 1 PF: 1 AF: 1 ZF: 1 SF: 0

(b) CF: 0 PF: 0 AF: 0 ZF: 0 SF: 1

(c) CF: 0 PF: 1 AF: 1 ZF: 0 SF: 0

34.

(a) Memory Address: 24000	Contents: FF
(b) Memory Address: 2A088	Contents: 25
(c) Memory Address: 26080	Contents: FF
Memory Address: 26081	Contents: 25
(d) Memory Address: 25006	Contents: 80
Memory Address: 25007	Contents: 60
(e) Memory Address: 2B0A8	Contents: 91
Memory Address: 2B0A9	Contents: 87
(f) Memory Address: 3B010	Contents: 99
Memory Address: 3B011	Contents: 12
(g) Memory Address: 23600	Contents: FF
Memory Address: 23601	Contents: 25
(h) Memory Address: 260B0	Contents: 99
Memory Address: 260B1	Contents: 12
(i) Memory Address: 37200	Contents: FF
Memory Address: 37201	Contents: 25
(j) Memory Address: 3B100	Contents: 80
Memory Address: 3B101	Contents: 60

(k) Memory Address: 24050

Contents: 25

(l) Memory Address: 3C100

Contents: FF

Memory Address: 3C101

Contents: 25

36. Memory location:

Content

(a) 15950

9F

15951

12

(b) 257C8

63

257C9

8C