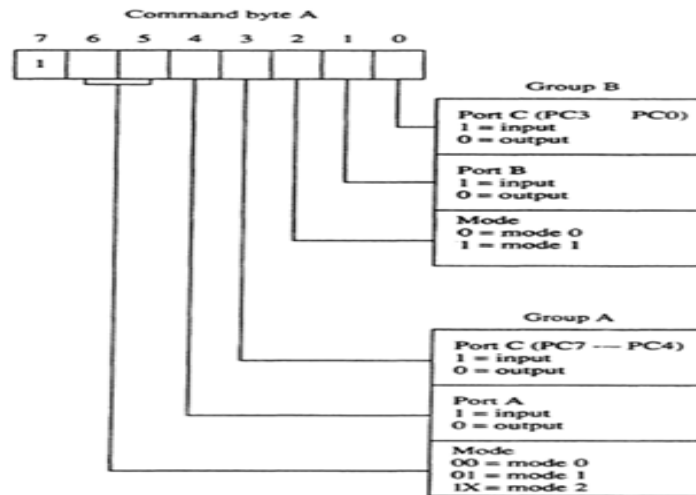


Programming with 8255A PPI of interfacing 8086 Microprocessor



Mode 0, Port A = input and Port B = output

1	0	0	1	0	0	0	1
---	---	---	---	---	---	---	---

91H

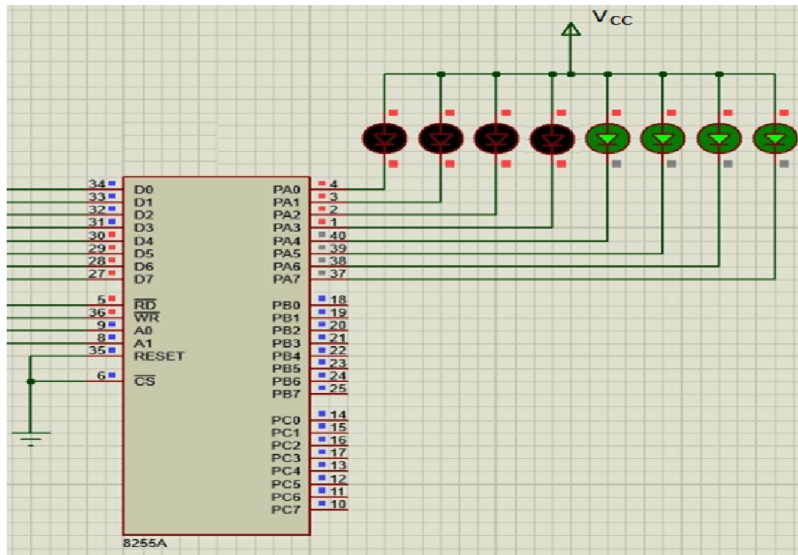


Figure: A 8 LEDs display interfaced to the 8086 Microprocessor an 82C55

Assembly Instructions:

;Set to the command register

;Mode 0, Port A = output

; 80H

MOV AL, 80H

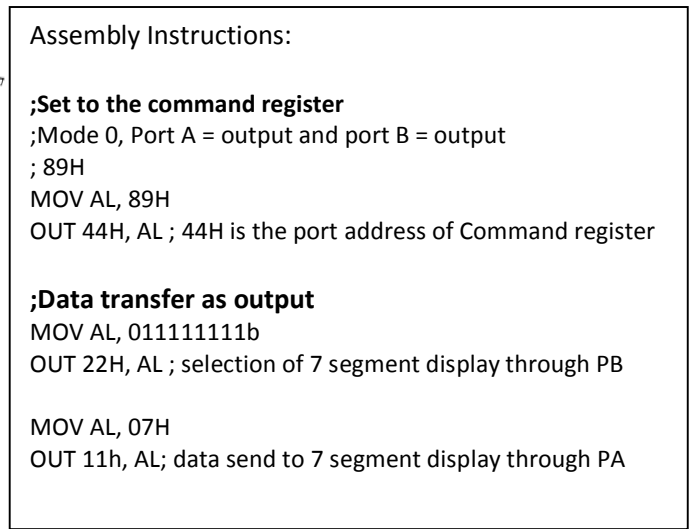
OUT 44H, AL ; 44H is the port address of Command register

;Data transfer

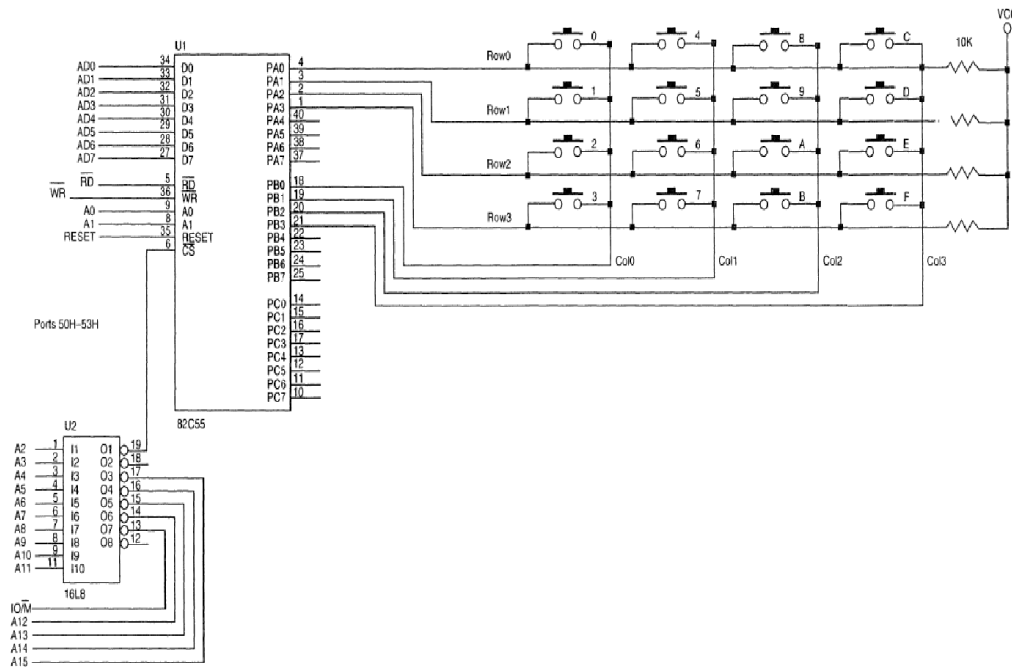
; 11110000b = F0H

MOV AL, F0H

OUT 11h, AL ; 11h is the port address of PA



FIGURE



Assembly Instructions:

;Set to the command register

;Mode 0, Port A = input and port B = output

; 91H

MOV AL, 91H

OUT 44H, AL ; 44H is the port address of Command register

;Data transfer

MOV AL, 10111111b

OUT 22H, AL ; selection of column of the keyboard through PB

IN AL, 11h; data receive from keyboard through PA

FIGURE A 4 × 4 keyboard matrix connected to an 8088 microprocessor through the 82C55