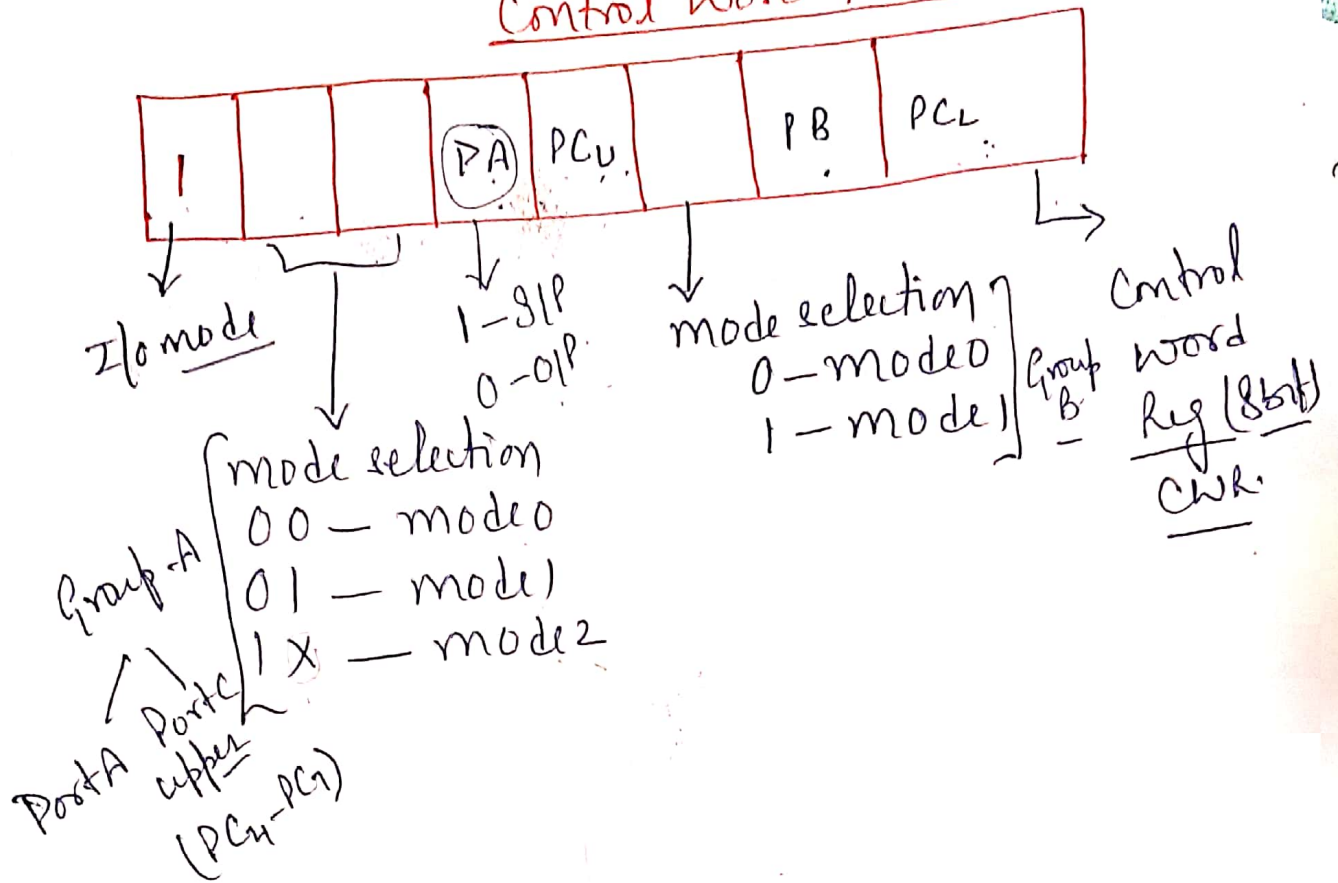
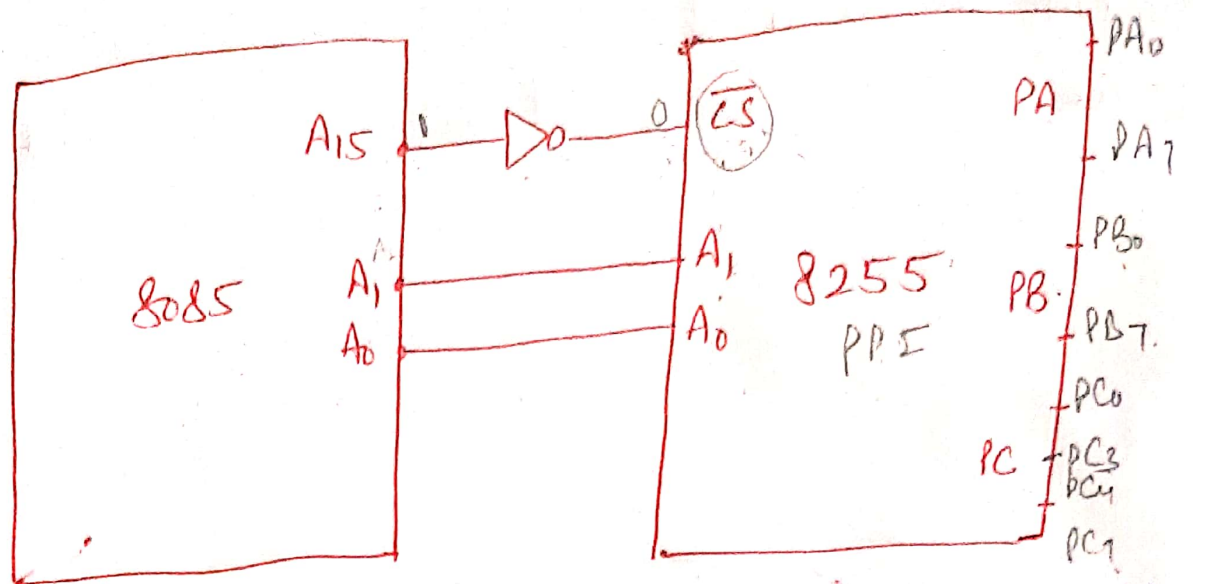


I/O mode of 8255 Control word format



I/O mode



Ques (a) Identify port addresses.

00 - PA
01 - PB
10 - PC
11 - CWR

Port A $A_{15} A_{14} A_{13} A_{12} A_{11} A_{10} A_9 A_8 A_7 A_6 A_5 A_4 A_3 A_2 A_1 A_0$ 8000H.
 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

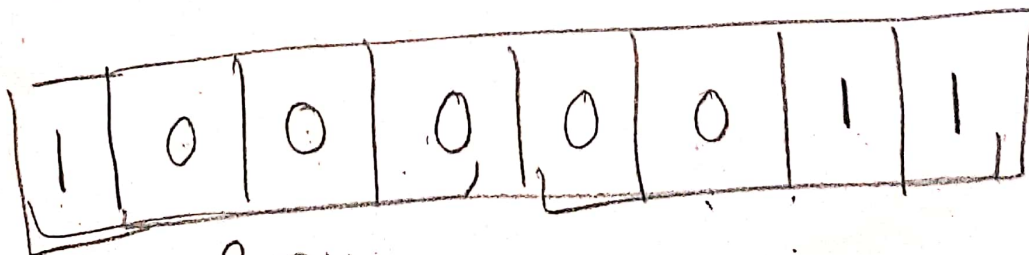
Port B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 8001H.

Port C 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 8002H.

CWR 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 8003H

(b) Identify content of CWR with mode 0 to configure Port A and Port C upper as O/P Port A & Port B and Port C as I/P Port.

CWR.

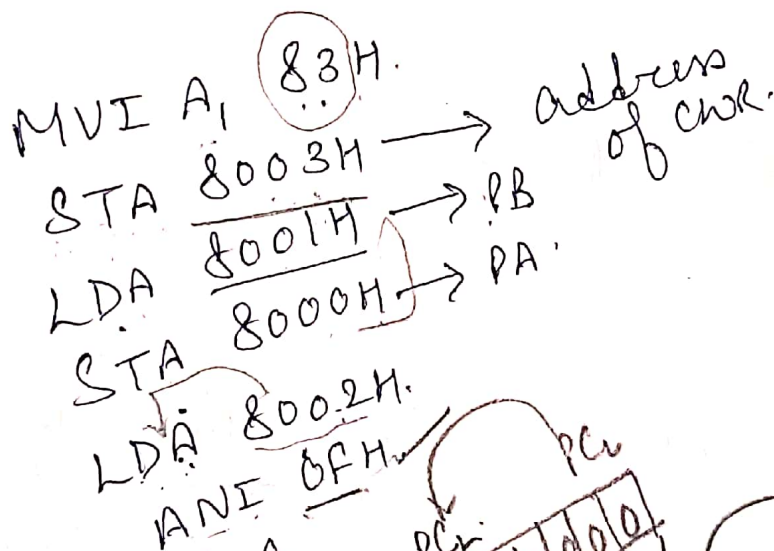


83H

(C) Program

NAP to read the content of switches and display the reading from Port B to Port A & PC_{in} to PC_{out}

SIP OIP SIP OIP → OIP



$\Rightarrow \text{CWR} \Rightarrow 834$
 \Downarrow
8003

8002H
INI OFH
 RLC
 RLC
 RLC
 RLC
8002H
STA HLT.

