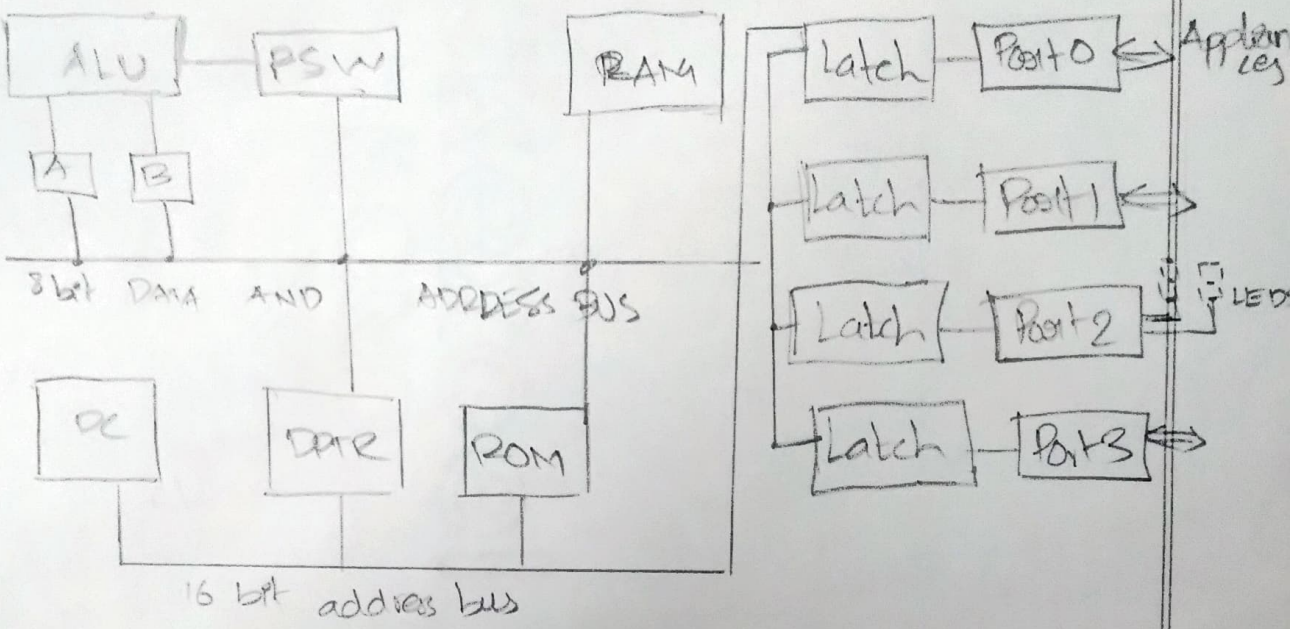
V. Subramanian
205001085
MPI - 2



ALP:

```
MAIN: MOV A, P0
      MOV P2, A
      SJMP MAIN
```

Port Address

Control word – C6

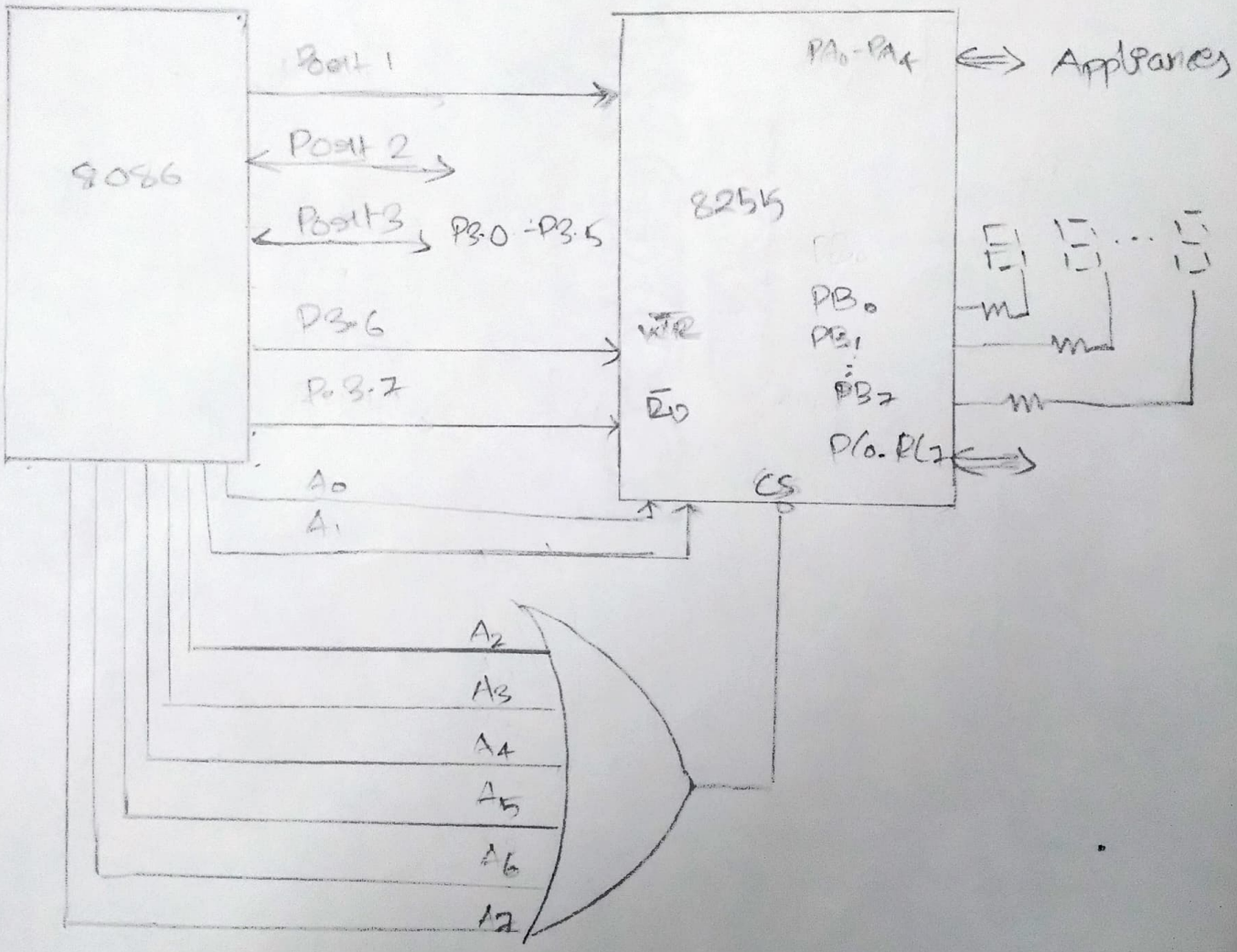
Port A – C0

Port B – C2

Port C – C4

ALP

```
MAIN:  MOV   A, #90H
       MOV   DPTR, #C6H
       MOVX  @DPTR, A
       MOV   DPTR, #C0H
       MOVX  A, @DPTR
       MOV   DPTR, #C2H
       MOVX  @DPTR, A
       SJMP  MAIN
```



While using 8255, Port 1 is used to connect to data lines. Since port 1 is not multiplexed, port 0 is used as address lines given to chip select. Port 3's lines, P3.6 and P3.7 are connected to write and read pins. The appliances can then be connected to port A and LEDs can be connected to port B of 8255