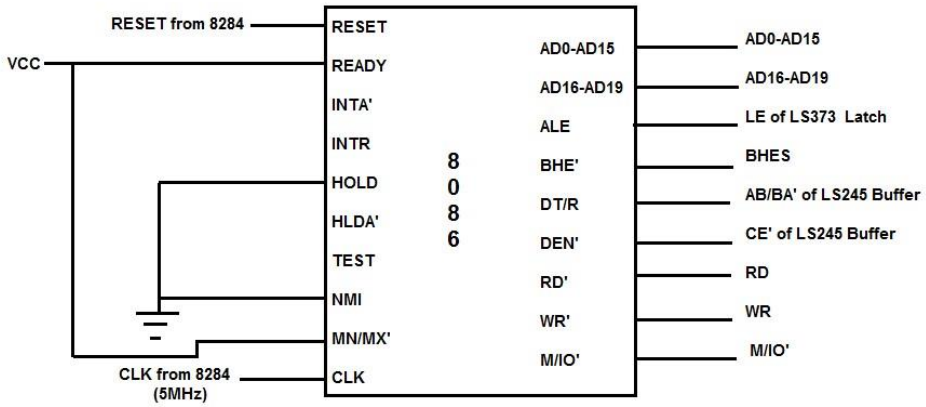
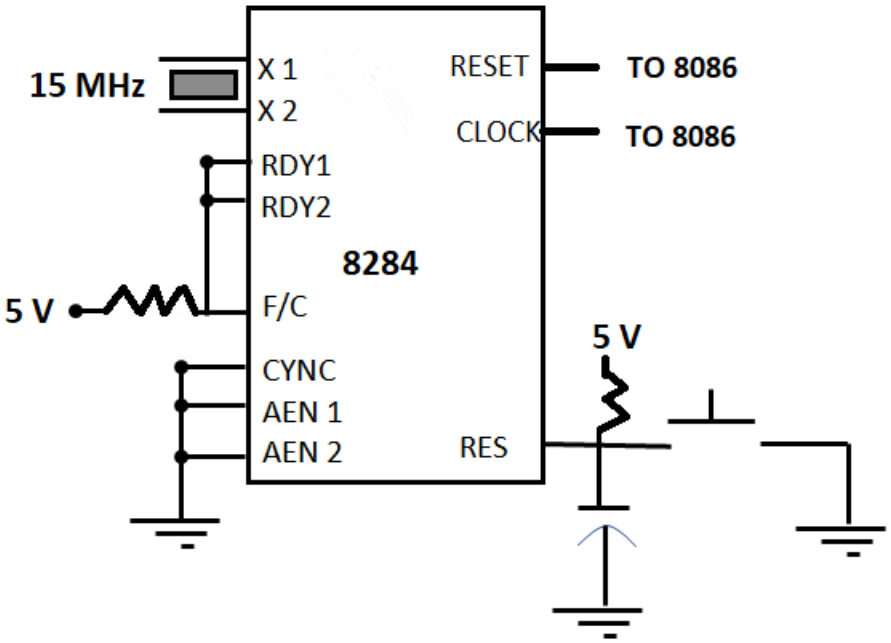
Design Components

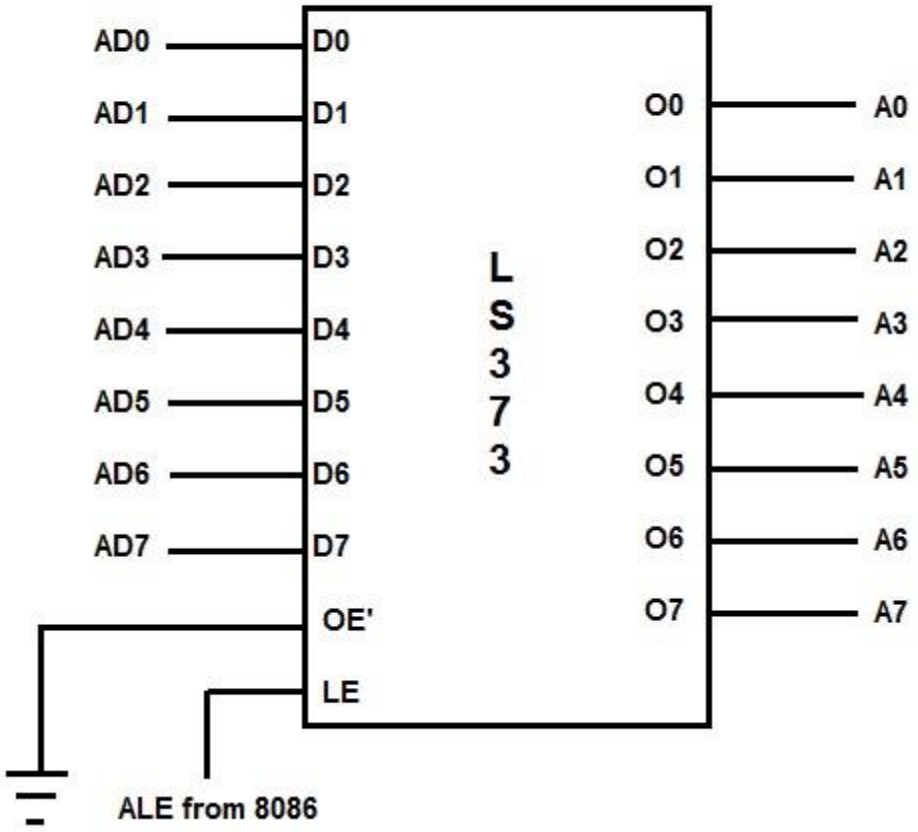
1. Connections to 8086 microprocessor

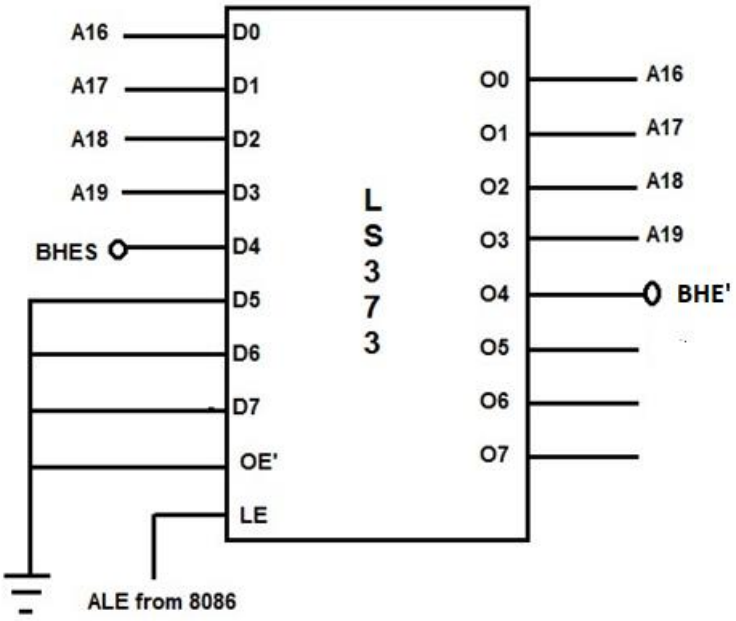


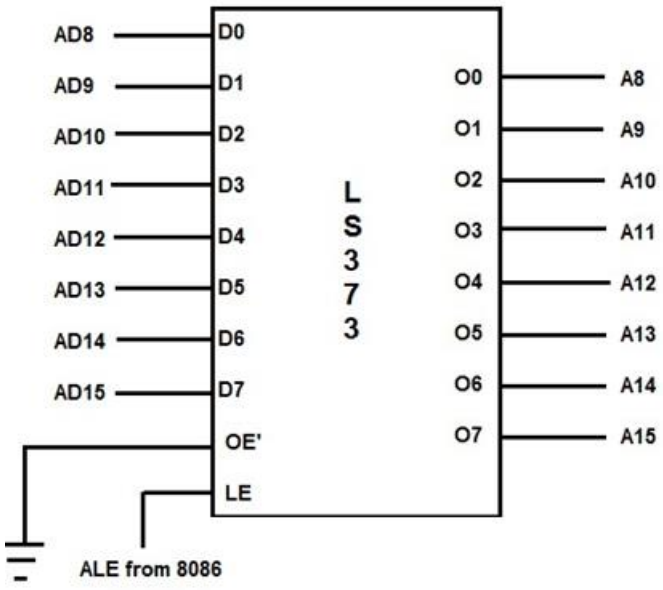
2. Connections to 8284 Clock generator



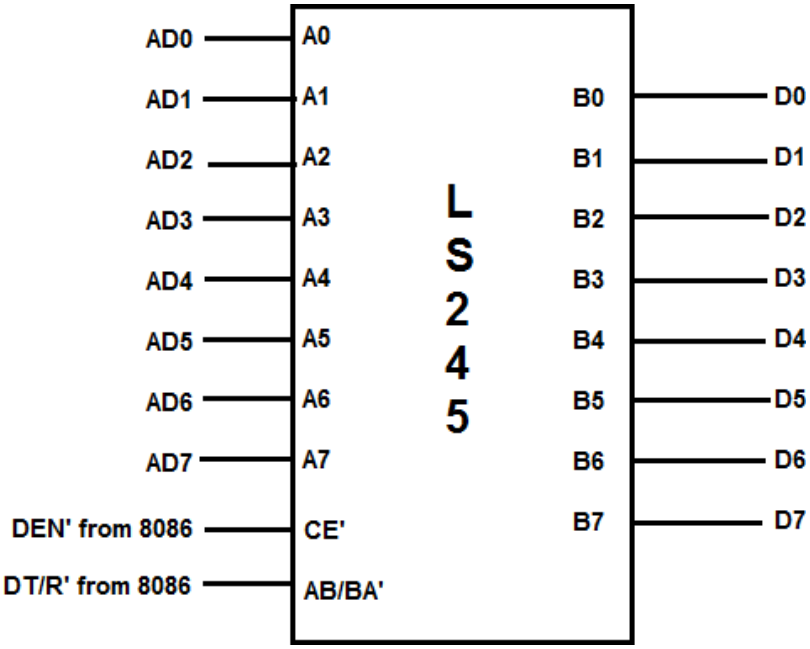
3. Address Bus : Connections to 74LS373 Octal Latches

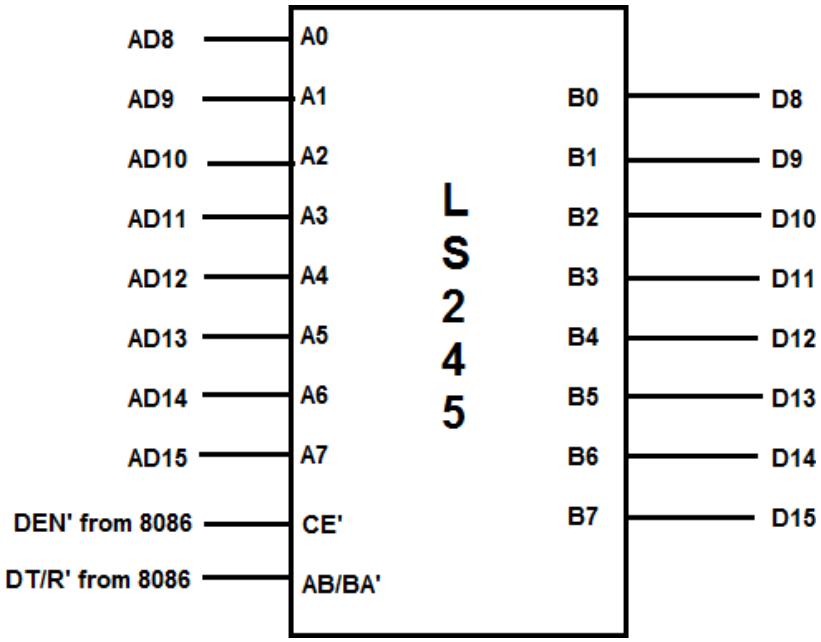



A16
A17
A18
A19
BHES
D0
D1
D2
D3
D4
D5
D6
D7
OE'
LE
LS373
O0
O1
O2
O3
O4
O5
O6
O7
A16
A17
A18
A19
BHE'
ALE from 8086

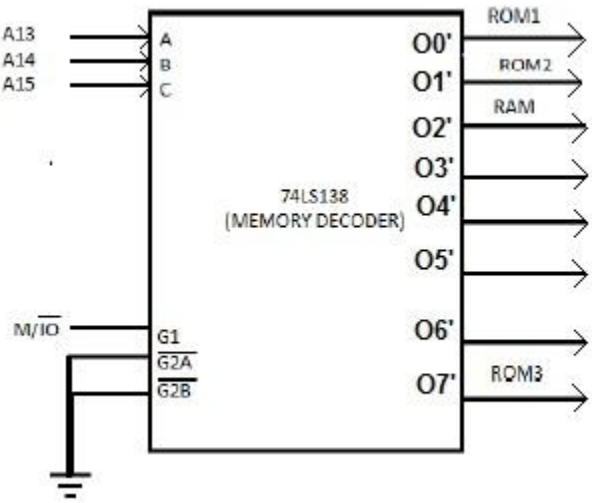

AD8
AD9
AD10
AD11
AD12
AD13
AD14
AD15
D0
D1
D2
D3
D4
D5
D6
D7
OE'
LE
LS373
O0
O1
O2
O3
O4
O5
O6
O7
A8
A9
A10
A11
A12
A13
A14
A15
ALE from 8086

4. Data Bus : Connections to 74LS245 Octal Buffers

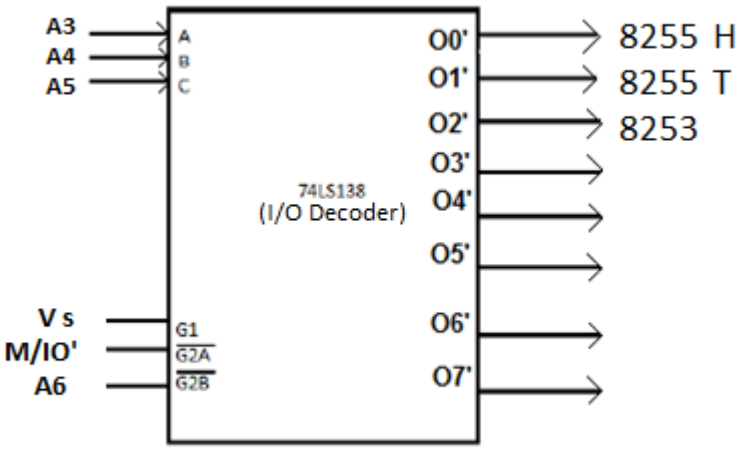




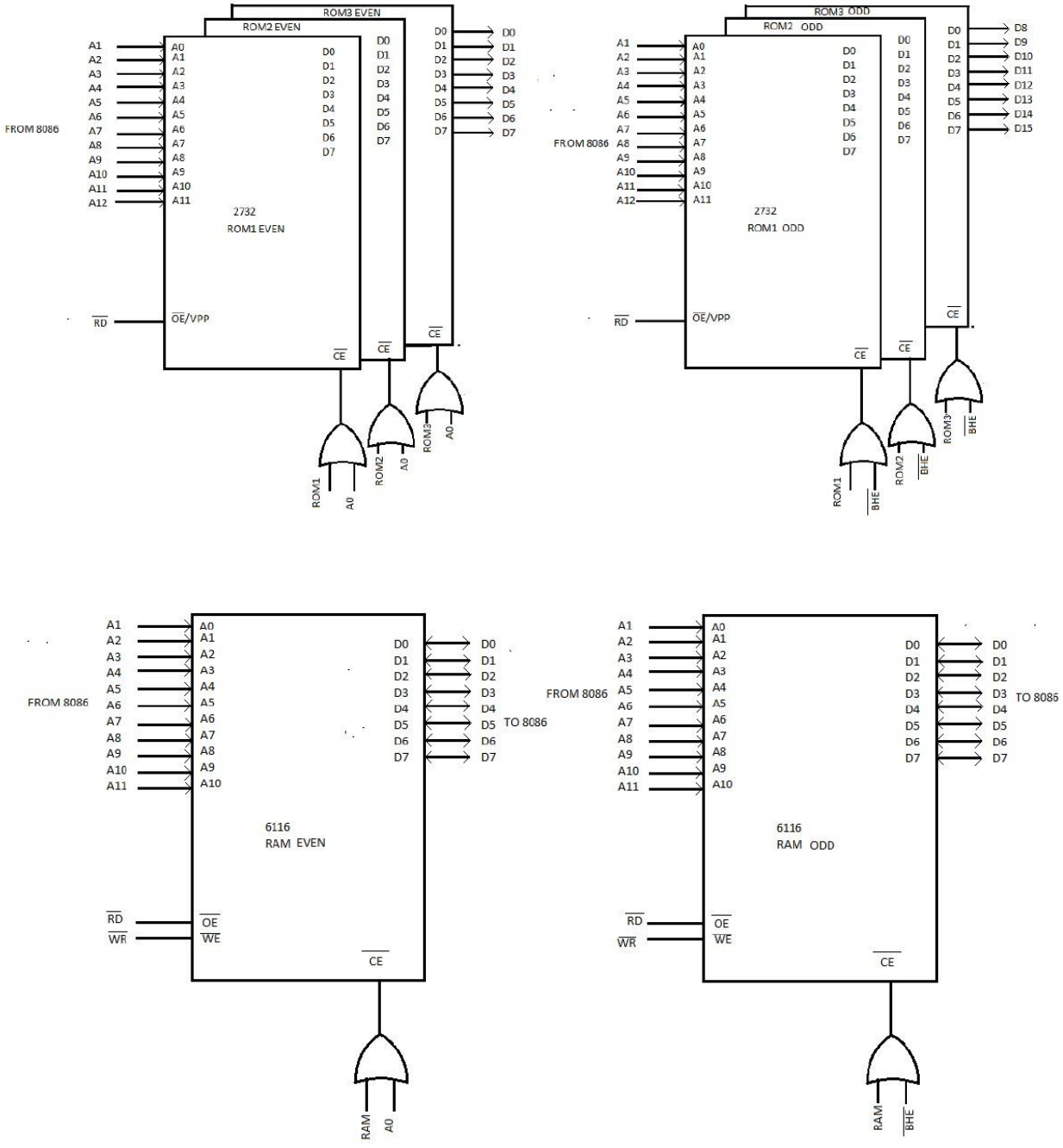
5. Memory Decoding Logic



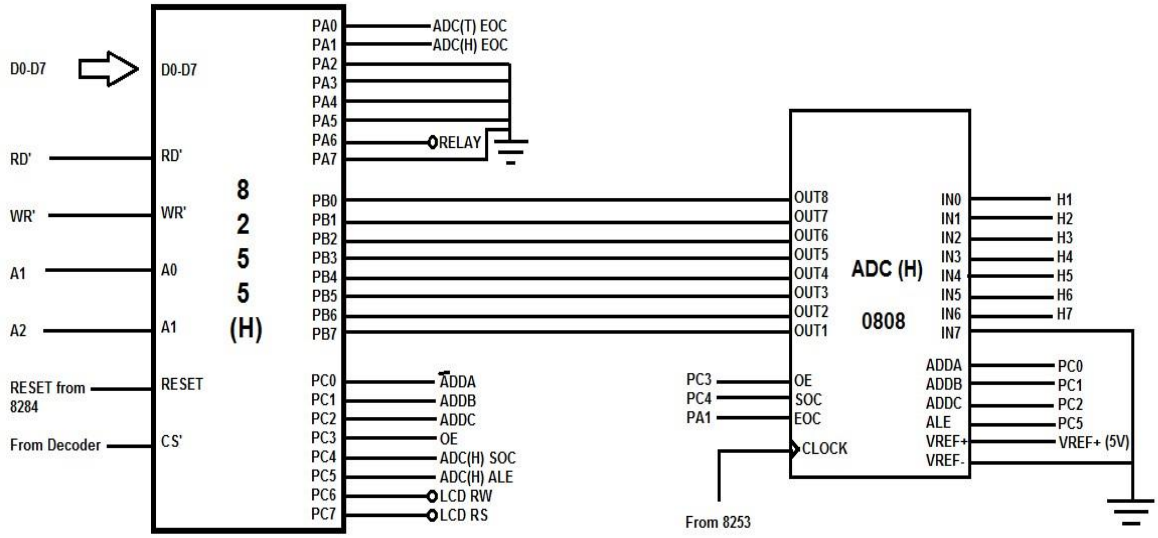
6. I/O Decoding Logic



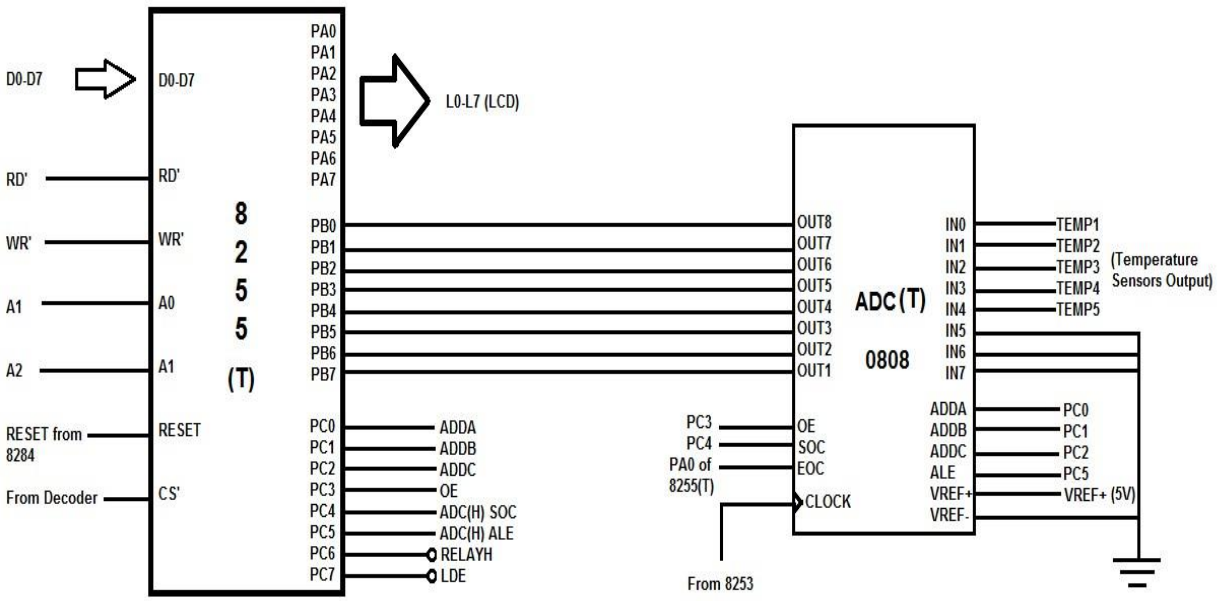
7. Memory Interfacing



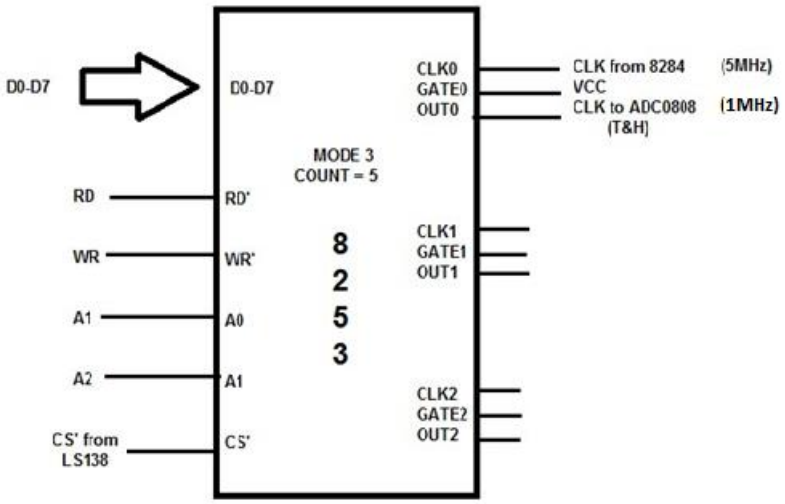
8. Interfacing of ADC(H) with 8255(H)



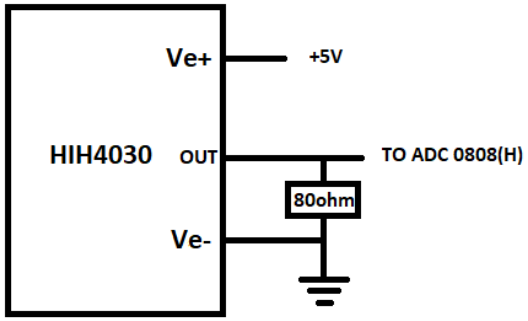
9. Interfacing of ADC(T) with 8255(T)

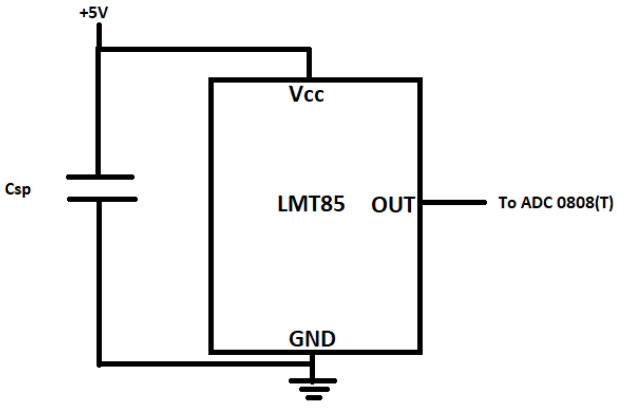


10. Interfacing of 8253 with ADC0808(T) and ADC0808(H)

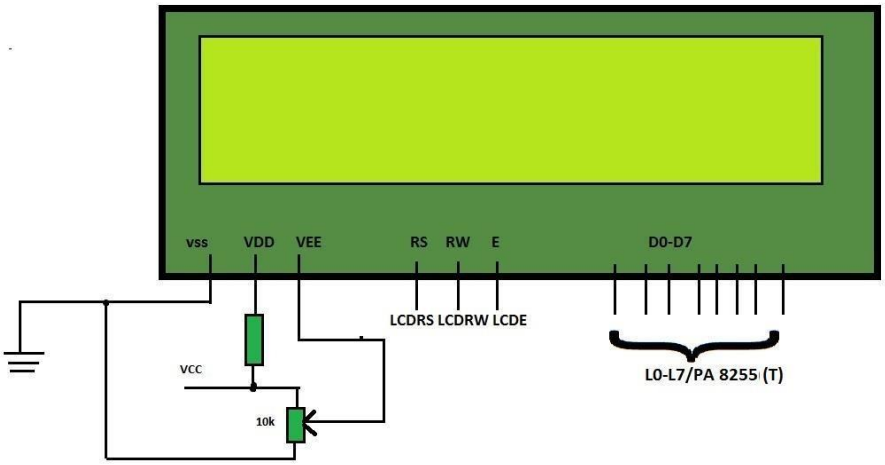
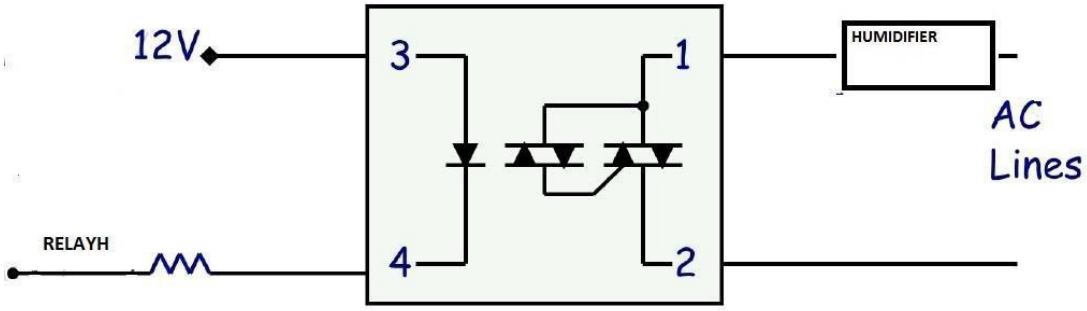


11. Connections to Temperature sensor LMT85 and Humidity sensor HIH4030





12. Interfacing of LCD with 8255(H) and 8255 (T)



13. Simple Relay Interfaced with RELAYH(PC6) from 8255 (T)