1. Write a program in 8086 assembly language to demonstrate Fully nested mode
2. Write a program in 8086 assembly language to demonstrate
3. Write a program in 8086 assembly language to demonstrate Encoded key Matrix of 8279
4. Write a program in 8086 assembly language to demonstrate Decoded scan key Matrix of 8279
5. Write a program in 8086 assembly language to demonstrate Sensor Matrix of 8279
6. Write a program in 8086 assembly language to demonstrate following 8279 seven segment display interface modes. Display digits 0 onwards in a right entry decoded scan
7. Write a program in 8086 assembly language to demonstrate following 8279 seven segment display interface modes. Display digits 0 onwards in a right entry mode in encoded scan
8. Write a program in 8086 assembly language to demonstrate following 8279 seven segment display interface modes. Display digits 0 onwards in a left entry mode in decoded scan
9. Write a program in 8086 assembly language to demonstrate following 8279 seven segment display interface modes. Display digits 0 onwards in a left entry mode in both encoded scan
10. Write a program in 8086 assembly language to configure Port A of 8255 as output port in mode1. Verify operation of this mode by writing a program to send output byte to port A under the control of handshake signals
11. Write a program in 8086 assembly language to configure port Bof 8255 in mode 1 input, verify it's operation under the control of relevant handshake signals
12. Write a program in 8086 assembly language to configure Port A, B and C as output ports in simple I/O mode. Generate flashing LEDs at Port C lines (with PCU and PCL turning on and off alternately), running lights from right to left at Port B and running lights from left to right at Port Fine tune the delay between flashing and running lights to 0.5 seconds
13. Write ISS for divide by zero interrupt to display **÷ ZERO ERROR**
14. Write a Interrupt Service Subroutine (ISS) for INT3 to increment CX by two and display contents of AX register on screen using INT 10 function call 0A of BIOS interrupt
15. Write ISS for detection of overflow to display **OVERFLOW ERROR**
16. Write a program in assembly language of 8086 to add two 32 bit numbers. First number is stored from 0000:2000, second number is stored from location 0000:3000. Store the result from 0000:4000 onwards
17. Write a program in assembly language of 8086 to transfer a block of memory. Starting address of source block is 0000:2000. Starting address of destination block is 0000:3000. Assume length of the block is stored in CX register
18. Write a program in assembly language of 8086 to find number of negative elements in a block of memory. Starting address of source block is 0000:2000. Assume length of the block is stored in 0000:3000
19. Write a program in assembly language of 8086 to find number of positive elements in a block of memory. Starting address of source block is 0000:2000. Assume length of the block is stored in 0000:3000
20. Write a program in assembly language of 8086 tofind number of even elements in a block of memory. Starting address of source block is 0000:2000. Assume length of the block is stored in 0000:3000