



5.
  - a) What is interfacing? Discuss peripheral mapped I/O and memory mapped I/O interfacing techniques with suitable example and also compares their characteristics.
  - b) Draw and explain the Internal Architecture of 80186 with neat block diagram.
6.
  - a) Design a complete interface diagram of DMA (8237) with 8086 processor. Assume the address for channel 0 is 3500H.
  - b) Write an assembly language program to find out the count of positive numbers and negative numbers from a given series of signed numbers in 8086.
7.
  - a) Draw and explain the Internal Architecture of 8251 (USART).
  - b) Draw the Interfacing Diagram of 8 bit DAC with the 8086 through 8255. Also write a program to generate a square wave of 1kHz. Assume the frequency of microprocessor is 5MHz.
8. Write short notes on the following :
  - a) Assembler Directives
  - b) Pentium Architecture
  - c) Interrupt Handling in 8086

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