

Assignment 1

CO1: Demonstrate the various features of microprocessor, memory and I/O devices including concepts of system bus.

1. Draw and explain microprocessor system with bus organization.
2. Classify memory devices and explain each type in short.

Assignment 2

CO2: Identify the hardware elements of 8085 microprocessor including architecture and pin functions and programming model including registers, instruction set and addressing modes.

1. Draw and explain block diagram of 8085.
2. Explain how demultiplexing of address and data buses is done using neat diagrams.
3. Describe programmer's model of 8085.

Assignment 3

CO3: Select appropriate 8085 instructions based on size and functions to write a given assembly language program.

1. Explain classification of 8085 instructions.
2. Describe addressing modes of 8085.

Assignment 4

CO4: Design a given interfacing system using concepts of memory and I/O interfacing.

1. Differentiate between Memory mapped I/O and I/O mapped I/O.
2. Explain interrupts in 8085.
3. Explain with diagram programmable peripheral interface 8255A.

Assignment 5

CO5: Demonstrate the features of advance microprocessors.

1. Draw and block diagram of 8086.
2. Explain segmentation in 8086.
3. Draw and explain architecture of 80286.
4. Draw and explain architecture of 80386.