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List of Experiment

MICROPROCESSOR & MICROCONTROLER LABORATORY
EE-594C

1. Familiarization with 8085 Trainer kit, Study of Prewritten programs on 8085 trainer kit using the basic instruction set.
2. Familiarization with 8085 simulator on PC. Study of Prewritten Programs using basic instruction set on the simulator.
3. Programming using kit and simulator
   a) Table look up
   b) Copying a block of memory
   c) Shifting a block of memory
   d) Packing and unpacking of BCD numbers
   e) Addition of BCD numbers
   f) Code Conversion
   g) String Matching
   h) Multiplication
4. Program using subroutine calls and IN/OUT instructions using 8255 PPI on the trainer kit
   Examples:
   a) Subroutine for delay
   b) Reading switches state & glow all the LEDs one by one with particular delay.
5. Familiarization with 8051 Trainer kit, study of sample programs on 8051 Microcontroller Kit using the basic instruction set.
6. Familiarization with 8051 simulator on PC. Study of sample programs using 8051 simulator using the basic instruction set

Additional Experiment

1. Interfacing of 8255: Keyboard and multi-digit display with multiplexing.