

LIST OF EXPERIMENTS:

1. Simple programming exercise on 8085 (Like 8-bit multiplication, division).
2. Code conversion, decimal arithmetic and Matrix operations.
3. Floating point operations, string manipulations, sorting and searching.
4. Simple programming with 8086 with basic system calls for input/output (Arithmetic operations).
5. String manipulation - search, find and replace, copy operations, sorting and searching.
6. File manipulations with system calls.
7. Interfacing with 8085/8086 – 8255 and 8253.
8. Interfacing with 8085/8086 – 8279 and 8251.
9. Microprocessor based system development.
10. Application development using Micro controller.

LABORATORY REQUIREMENTS FOR BATCH OF 30 STUDENTS**HARDWARE**

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| 1. 8085 trainer kits | 30 |
| 2. 8086 trainer kits | 30 |
| 3. Interface cards like stepper motor interface, traffic light controller, ADC / DAC | |
| 4. 8051 trainer kits | 30 |

SOFTWARE

1. 8086 assembler.
2. Simulator for HDL.
3. Simulator for 8051.