LABS on Microprocessors

1. Programming model of 8086/8088 microprocessor. Addressing modes. Representation of information in the computer. Integers and integer operations.
2. Assembler. Commands and directives. Instruction table.
3. Creating, translating and execution of assembly language program. Structure of the program. Debugging.Data movement instructions.
4. Arithmetic instructions. Linear programs.
5. Flow control instructions. Conditional and unconditional branches. Branched programs. Ready to use Input/Output macroses.
6. First test.
7. Loops. Arrays processing. Typical tasks.
8. Arithmetic tasks and processing of data–structures.
9. Logic instructions. Bit manipulation instructions.
10. Procedures. Parameters delivery. Stack.
11. Strings. String instructions.
12. Multi-module program. Transferring the parameters. In-line Assembler in C program.
13. Input-output instructions. Interrupts. Some useful BIOS and MS-DOS functions.
14. Second test.
15. System devices programming.

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