FLEX YOUR BRAIN

Mini Project

- Consider a language of your choice do the following task

- Identify the tokens and its specifications

- Identify the syntactic structure of the language

- Specify both lexical and syntactic structure of the language constructs using Lex and Yacc and tools

- Adapt the procedure as given in chapter 6 and appendix-A or your own procedure writing the semantic routines for the generation of intermediate code

- Consider simple expression for the conversion of intermediate code into assembly code

- Use the methods given in section 8.5.3 for the conversion of the assembly code into target machine code for the 8086 processor.

- Identify the exe format of a target processor such as 8086 and fill header portion

- Write the machine code into a binary file following the exe header format

- Execute the exe file and debug if required

The companion CD will assist you to complete the above tasks for a language like C.