FEA Programs

These are the files you must obtain and place in a directory to which you have write access - your home directory should do nicely for the directory.

Executable and input files for fem1d

- fem1d.exe
- Program 1.dat
- Program 1.out

Other input files for fem1d

- ex-3-2-1.inp
- ex-4-3-1.inp
- ex-4-6-1.inp
- ex-5-2-1.inp
- ex-5-2-2.inp
- ex-5-4-1.inp
- ex-6-1-2.inp (Free Vibration)

Note: For creating custom input files, you can either edit the existing files or create your own input files in notepad or wordpad and execute them.

Executable and input files for fem2d

- fem2d.exe
- ex-8-5-1.inp
- ex-8-5-4.inp

Before downloading the files, create a **FEM** directory or sub-directory somewhere in your personal disk space. The executable file (fem1d.exe or fem2d.exe) and the input file have to be in the same directory to run the input file.

If you access the files with a Web browser, you can just click on each of those links and save the files to the directory you created in the preparation stage.
Note: Different browsers may give different prompts, but expect one for each file about where to save it, and also possibly one about whether to open it or save it. **In Netscape and some other browsers, it will be necessary to hold down the *Shift* key when clicking on the links to be sure of saving the file rather than viewing it.**

Running the Programs

With the above files saved to your working directory:

- Get a command prompt
- Change to the drive on which your working directory is located
- **CD** to your working directory
- Enter the launch command for the program

    fem1d foo.inp bar.out

or

    fem2d foo.inp bar.out

where foo.inp and bar.out are the **sample** names of the input and output files respectively. While executing your input file, "foo" has to be replaced with your input file name. The same holds good for the output file too.

- Ignore error messages like **Unit 5**, **Unit 6**, and **Program Terminated**.
- Use **Notepad, Wordpad** or any other text editor to open and view your output file - if you use a **.txt** extension for your output file, you can just double click on it. Microsoft word cannot be used for editing either of the input file or output file.