# How to use LaTeX*

CSCE 235 Introductions to Discrete Structure
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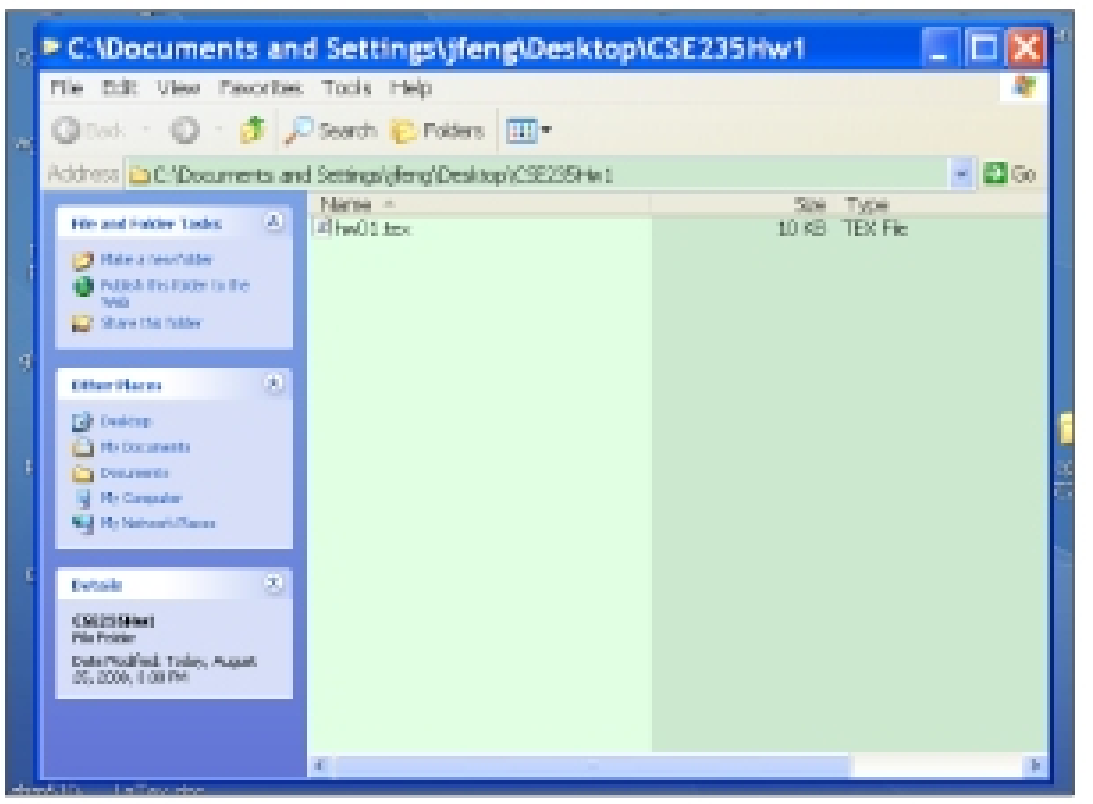
In this document, we explain how to use LaTeX to edit your homework on CSE computers.

First of all, the GTA will provide you a '**F08-hw-example.tex**' file. This file is a template for homework that you want to customize for each homework, if you choose to submit them in LaTeX. You can save it as 'hw01.tex' to include the questions of and your answers to homework 1.

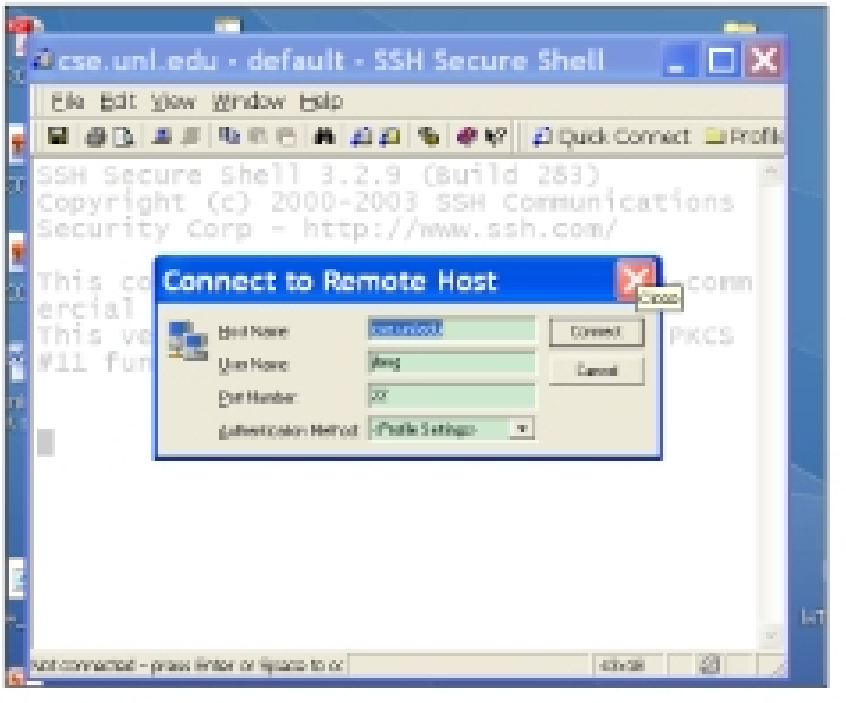
The detailed steps are as follows.

## Using nano or Kile

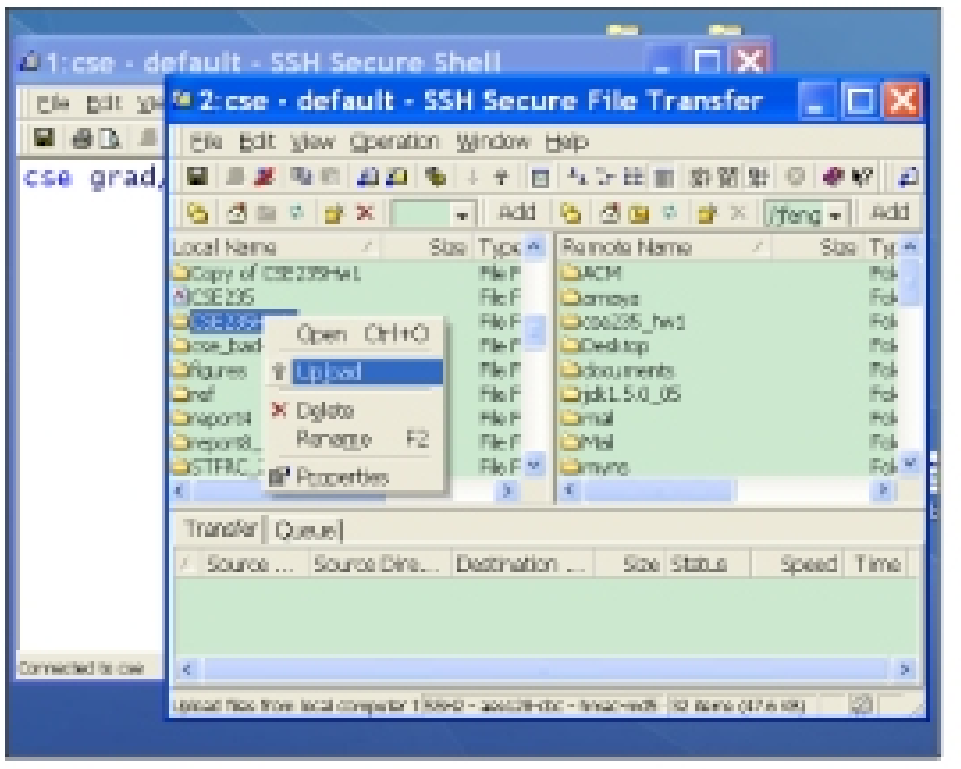
1) Create a folder called "CSE235Hw1" and put the file 'hw01.tex' in this folder.




2) Use 'SSH Secure Shell Client' to connect to the CSE server:




3) Upload the folder "CSE235Hw1" to the server by using ssh client:




4) To fully compile and link the cross-references on, please go to the directory 'CSE235Hw1', and repeat some commands as follows.

```
latex hw01
bibTeX hw01
latex hw01
latex hw01
dvipdf hw01.dvi hw01.pdf
```

Alternatively, you can do:

```
pdflatex hw01
```

Please also refer to the next figure [1].

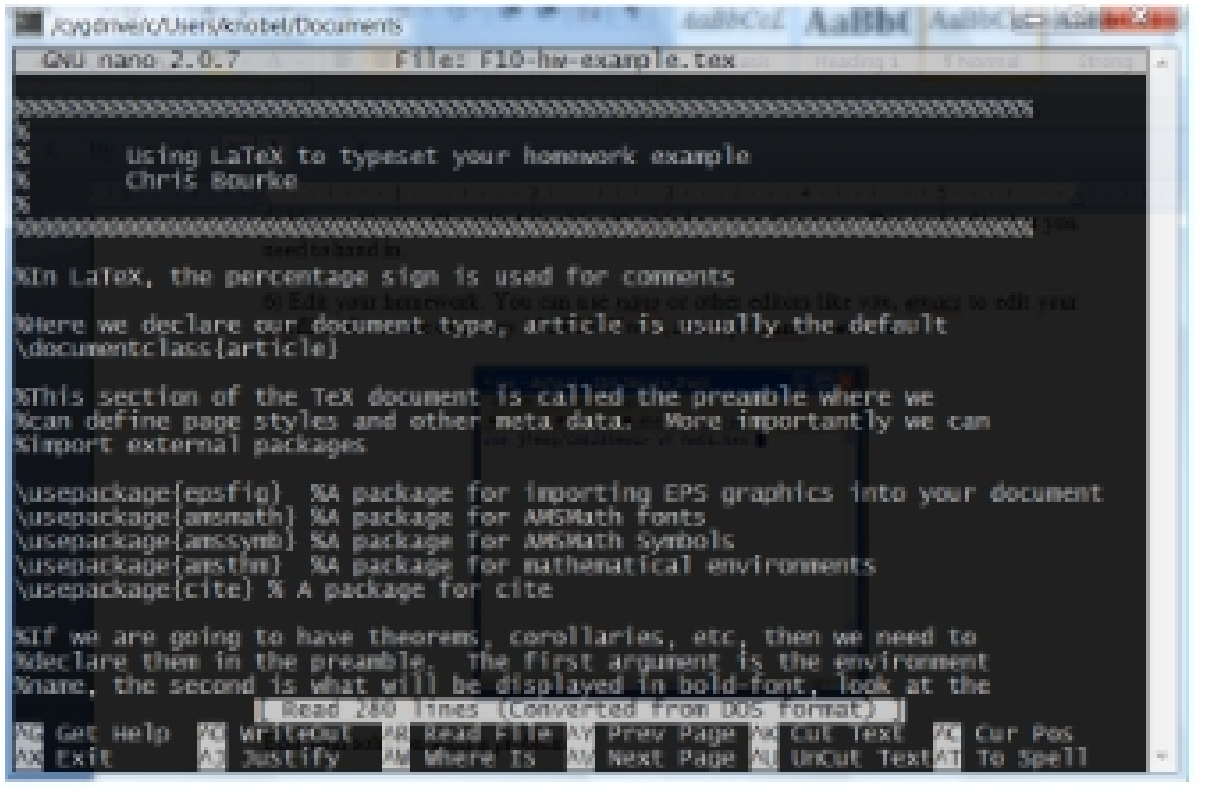
**Compiling the document and bibliography**

To fully compile and cross-link references on must repeat some commands:

| step # | to create file *mydocument.dvi*: | to create file *mydocument.pdf*: | result of command: |
|---|---|---|---|
| 1 | `latex mydocument` | `pdflatex mydocument` | creates .aux file which includes keywords of any citations |
| 2 | `bibtex mydocument` | `bibtex mydocument` | uses the .aux file to extract cited publications from the database in the .bib file, formats them according to the indicated style, and puts the results into in a .bbl file |
| 3 | `latex mydocument` | `pdflatex mydocument` | inserts appropriate reference indicators at each point of citation, according to the indicated bibliography style |
| 4 | `latex mydocument` | `pdflatex mydocument` | refines citation references and other cross-references, page formatting and page numbers |

5) Your will see a file called 'hw01.pdf' added to your directory. This is the file that you need to hand in.

6) Edit your homework. You can use *nano* or other editors like *vim*, *emacs* to edit your tex files. Go to the directory "CSE235Hw1", and type `nano hw01.tex`




Edit your solution after a problem.

After you finish your homework, compile it and hand in your PDF file using the `handin` program on `cse.unl.edu`

A better alternative to editing TeX files in Linux environment is to use Kile. You can login to the Unix environment in the local machines in the cse lab and use Kile.