

Exercise sheet 2

(Submit by email to dm@sfs.uni-tuebingen.de before class on Thursday, May 29)

Write the little programs below, naming them nr1.py, nr2.py, etc. Save them in a folder *ex2-userid* (e.g., ex2-dm) and send me an email with a tar.bz2 archive of that directory. Please make sure that it unpacks to a directory *ex2-userid*, not the individual files.

1. Create a web-based version of exercise sheet 1, program 3, using `mod_python`: Create a web form which allows you to enter a line of text, type return or click on a button, which should result in a web page with the results.

Here is the description of program 3 of exercise sheet 1 again:

- Write a program that will read in a line of text and print out how many times each letter occurs in the text, ignoring capitalization and spaces. Example:

Input: This is a test.

Output: t 2
 h 1
 i 2
 s 3
 a 1
 e 1

2. Create a web form in which one can specify a user id and click on a button to see the real name of that person on our system. The form should call `mod_python` to pass the user id to a python program, which calls `finger` to obtain the name listed after "In real life:".
3. Write a program that uses `wget` to query the site `www.wunderground.com` for the weather conditions at the airport in Stuttgart (STR) and reports the current temperature and humidity, and when this information was last updated.
4. Write a program that asks the user for a directory name (specified as an absolute path) and calls the unix command `ls` to list the contents of the directory. Rather than display the output of `ls` directly, the program should show the listing such that each letter is replaced with the next one according to the ASCII table.