

Lab 3: generating html files from Python 2.x

Tasks

1. Use **PuTTY** or **OpenSSH** to login to the main Burrow Linux system
2. **CGI directory**: Once you are logged into *silو.soic.indiana.edu*, change directory to *~/cgi-pub/* :

```
cd ~/cgi-pub/
```

3. **Write a Python 2.x program that generates an html file**: for example using the **pico** text editor:

```
pico lab3.py
```

4. On your own, **download the text file** named "*temperatures.text*" from the Oncourse I211 site (in Resources->Labs).
 - In the "*temperatures.text*" file, every line contains one text string representing a place/town/city (e.g. Bloomington), and one number representing a temperature (e.g. -10, +34.5), separated by space (" ").
 - Upload the "*temperatures.text*" file from the lab PC (i.e. where you just downloaded it from Oncourse), to *silو.soic.indiana.edu* using *WinSCP*.
 - Within on your account on silو, move the "*temperatures.text*" file to the *~/cgi-pub/* directory.

5. **The lab3.py program should do the following**:

- Write a Python 2.x program that reads from the "*temperatures.text*" file, and writes its content out to a file as an HTML table, within a complete web page HTML file.
 - The HTML file that is generated should be called "lab3.html", and it should contain an HTML *table* with two columns. In the HTML table, place a first "*header*" row with the words "location" and "temperature" in its two table cells. Subsequent rows should be generated by your Python code, one for each line read from the "*temperatures.text*": each new row in the HTML table should contain values for location and temperature as read from that file.
 - Some useful Python 2.x calls, about strings...
 - `list-of-substrings = string.split()` # obtain a list of the words in the string, using whitespace as the delimiter string
 - ...and about files
 - `file = open(filename, "w")` # open a file for writing to it, or:
 - `file = open(filename, "r")` # open a file for reading from it
 - `file.write(some-text-string)` # to write some-text-string to a file
 - `list-of-strings = file.readlines()` # to read text from a file, each read line then goes to an element in the list
 - `file.close()`
1. **HTML web page test**: In a web browser window, go to the following URL address to verify that your lab3.html page is now visible to the world (use your own username, not the word "username")

in the address):

`http://cgi.soic.indiana.edu/~username/lab3.html`

Last updated: [*Mitja Hmeljak*](#) January 30, 2014