

# Create HTML pages

Fall 2011

---

## Assignment overview

Due Monday October 24, 2011 at 11:59 PM

This assignment will give you more experience on the use of:

1. Lists
2. File I/O
3. Functions
4. Format strings
5. Basic HTML

## Background

A website is made up of an HTML page. This HTML page is simply a text file with a certain format. Taking advantage of this fact one can take up an HTML template and create multiple pages with different values stored in a database. This is exactly what we are going to do in this project.

Many websites use these kinds of scripts to mass generate html pages from databases.

## Project Description/Specification

The template that you will be given here is this:

```
<html>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=7 STYLE="font-size: 60pt">VALUE1</FONT></P>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=7 STYLE="font-size: 36pt">VALUE2</FONT></P>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=7 STYLE="font-size: 36pt"> VALUE3</FONT></P>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=6 STYLE="font-size: 28pt"> VALUE4</FONT></P>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=6 STYLE="font-size: 28pt"> VALUE5</FONT></P>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=6 STYLE="font-size: 28pt"> VALUE6</FONT></P>
<P CLASS="western" ALIGN=CENTER STYLE="margin-top: 0.08in; margin-bottom: 0.25in">
<FONT SIZE=6 STYLE="font-size: 28pt"> VALUE7</FONT></P>
</html>
```

If you copy paste the above code in a file called template.html it will look like below.



VALUE1

VALUE2

VALUE3

VALUE4

VALUE5

VALUE6

VALUE7

You are to emulate this template. As you can see there are very common and recurring patterns in the html code given above.

You are given a CSV file of values. Your objective is to read the CSV file, and create a new html file for each row in that file. Each value in a row will replace value1, value2 etc in the template. You must create a new html file for each row with the file's name coming from the first value in the row for the CSV file—a character's name. You are to use the character's last name as the file name with “.html” appended at the end. For example, suppose your first value in the row is ‘John Q Smith’, then your filename will be Smith.html .

### **Requirement Details:**

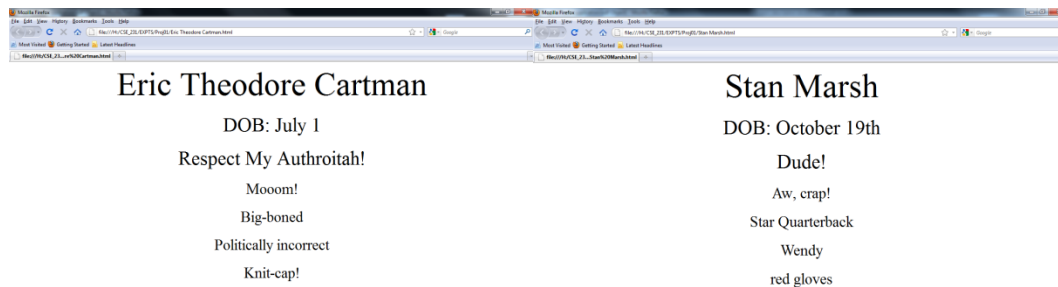
1. You must prompt for a filename for the csv file.
2. You must use a list to maintain the values in each row read from the file.
3. You must have a function that returns the lines to be written to the output file. The function must take as argument the values from the list and any other values you want to pass such as font size etc and return the entire string in HTML format that is to be written to the output file. (You are allowed to use more than one function, but you must at least have this one.)

### **Program flow:**

1. Prompt user for the CSV file name.
2. Open the file using 'rU' as the mode. Then the values are read and a list is populated from each row.
3. Each row creates an html file
4. Each value in row is written in a new line in the html file with specific values as specified in the template.
5. The file is closed and next row is processed until all rows are done.

### Sample Outputs:

For the given dataset your script must generate something like below. Two of the five HTML page outputs are shown.



### Deliverables:

Only the proj06.py file.

### List of files provided for download

southPark.csv  
template.html