

Exercise 1. Hit Counter.

1. Create a new document with DOCTYPE, head, charset, title, and body elements.
2. Name the file `hitcounter.php`.
3. Put a comment with your name and the date at the top.
4. Use "Hit Counter" as the title.
5. Add a PHP script section to the body.
6. Add this code:

```
$counterfile = "hitcount.txt";
if (file_exists($counterfile)) {
    $hits = file_get_contents($counterfile);
    $hits++;
}
else {
    $hits = 1;
}

echo "<p>There have been $hits hits to this page.</p>\n";

if (file_put_contents($counterfile, $hits)) {
    echo "<p>The counter file has been updated.</p>\n";
}
```

7. Make sure the directory (folder) has write permissions so the script can create a new file called `hitcount.txt` if none exists.
8. Load the `hitcount.php` file by navigating to localhost. The file should be at a location such as http://php.missioncollege.edu/~ca86_42/Chapter07/hitcounter.php
9. (The file may be on your local system at <http://localhost/Chapter07/hitcounter.php>)
10. Debugging. If your code does not work:
 - a. Make sure it is typed properly.
 - b. Make sure your Chapter07 folder has write permissions.
 - c. See if a `hitcount.txt` file ever gets created and what is its contents.

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Exercise 2. Guest Book.

This guest book will consist of 3 files:

- [1] Form to sign the guest book;
- [2] Form handler to write to the guest book file;
- [3] Script to show the contents of the guest book.

File 1. Form.

1. Create an HTML file. Save it a `guestbook.html`.
2. Put this form in the `<body>` section of the `guestbook.html` file:

```
<p>Enter your name to sign the guest book.</p>

<form method='post' action='signguestbook.php'>

<p>First name: <input type='text' name='firstname' /></p>
<p>Last name: <input type='text' name='lastname' /></p>
<p><input type='submit' value='Add to Guest Book' /></p>

</form>

<a href='showguestbook.php'>Show guest book</a>
```

File 2. Form handler.

1. Create a PHP file. Save it as `signguestbook.php`.
2. This file should be a complete HTML file with DOCTYPE, head, body, etc.
3. Add this code in a PHP script section in the body:

```
if (empty($_POST['firstname']) || empty($_POST['lastname'])) {
    echo "<p>Please enter your first and last name.</p>\n";
    echo "</p><a href='guestbook.html'>Back</a></p>\n";
}
else {
    $first = addslashes($_POST['firstname']);
    $last = addslashes($_POST['lastname']);
    $guestbook = fopen ("guestbook.txt", "a");
    if (is_writable('guestbook.txt')) {
        if (fwrite ($guestbook, "$last, $first\n")) {
            echo "<p>Thank you for signing our guest book!</p>\n";
        }
        else {
            echo "<p>Sorry, cannot add your name to the guest book.</p>\n";
        }
    }
    else {
        echo "<p>Sorry, there was an error writing to the file.</p>\n";
    }
    fclose ($guestbook);
}
```

File 3. Show Guest Book.

1. Create a new PHP file. Save it as `showguestbook.php`.
2. This file should be a complete HTML file with DOCTYPE, head, body, etc.
3. Use the `readfile()` function to display the contents of the `guestbook.txt` file.

Exercise 3. Show Source Code.

1. Create a new complete PHP file with all HTML elements. Save it as `source.php`.
2. Put this code in a script section in the body tag of the `source.php` file:

```
if (isset($_GET['sourcefile'])) {  
    $sourcecode = file_get_contents (stripslashes($_GET['sourcefile']));  
    highlight_string($sourcecode);  
}  
else {  
    echo "<p>No source file name entered.</p>\n";  
}
```

3. You can invoke this function as follows:
<http://localhost/Chapter07/source.php?sourcefile=hitcount.php>
4. Create web links at the bottom of this file to all the other PHP projects this week, so I can use it to view the PHP source code for each of your projects this week. Each link should show the source code for one source file, using a link like the one in #3 above. Link to the source code for these files:
 - a. `hitcount.php`
 - b. `showguestbook.php`
 - c. `signguestbook.php`
 - d. `source.php`
5. Here is more information about `highlight_string`:
<http://php.net/manual/en/function.highlight-string.php>

Exercise 4. Final Project Checkpoint.

Objective: insert last week's `alphabetize.php` file into the web page template.

1. Copy last week's project files into a new Project folder (if you have not done so already). The URL to the project should be

<http://localhost/Project/>

or

http://php.missioncollege.edu/~ca86_69/Project/

2. Copy last week's `alphabetize.php` file into your Project folder.
3. Keep the web form, but remove all the head, DOCTYPE, and footer information from the `alphabetize.php` file.
4. Insert the include commands to bring in the header, banner, text navigation, button navigation, and footer.
5. Copy the `header.php`, `footer.php`, and `navigation.php` files into the Project folder. (Copy them, leaving them intact in the previous folder.) Also copy and styles.css file.
6. In the `navigation.php` file. Add a link from the button that says "Web forms" to the `alphabetize.php` file.
7. Your page should show the alphabetize web form using the styles and template you created previously.

Exercise 5. Turn it in.

Link all these files to your home page so I can look at them quickly.

Note that some of the files are in the `Chapter07` directory and some are in the `Project` directory.