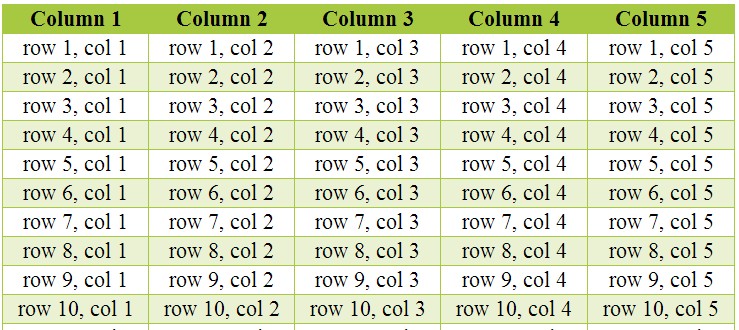
**Lab 3 – Practice**

This lab assumes that you’ve done your previous two labs because those concepts are used in this particular lab.

**Task 1 – Generate a table using PHP**

Try to use the PHP, HTML and CSS to generate a 50 times 5 table. You are supposed to use the PHP loop statement to generate the table. The result should look like the following one:



Instructions

1. The table has a header (say "row 0") , which describe names of each column. You may use the *th* tag.
2. The table has five columns and 50 rows (row 1 to 50), which are dynamically generated by the PHP loop statement, for example *for, while* loops.
3. The background color of an odd row is white; while even rows use a different color, for example, "#EAF2D3". You may use the PHP *if-else* statement for different background colors.

**Task 2**

**Three Simple Tasks**

|  |  |
| --- | --- |
| 1. | In the PHP script below, an array $EU is created which contains all the countries that are currently in the European Union. The names of the countries are used as keys, and the capitals of these countries are given as values. Make a list which states the capital of each country. In other words, for each element in the array $EU, a statement along the lines of "The capital of [country] is [capital]" should be printed. Sort the list by the name of the country. Also try to sort the list by the name of the capital. |
|  | <!DOCTYPE html public "-//W3C//DTD HTML 4.0 //EN">  <html> <head> <title>Databases and Webprogramming</title> </head> <body bgcolor="#f9f9f9">  <?php  $EU = array( "Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels", "Denmark"=>"Copenhagen",  "Finland"=>"Helsinki", "France" => "Paris",  "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana",  "Germany" => "Berlin", "Greece" => "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "Portugal"=>"Lisbon", "Spain"=>"Madrid",  "Sweden"=>"Stockholm", "United Kingdom"=>"London",  "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius",  "Czech Republic"=>"Prague", "Estonia"=>"Tallin", "Hungary"=>"Budapest", "Latvia"=>"Riga", "Malta"=>"Valetta",  "Austria" => "Vienna", "Poland"=>"Warsaw") ;  <h3>Countries of the European Union</h3>  asort($EU) ;  print "<p>" ;  foreach($EU as $country => $capital) { print "The capital of $country is $capital </p>" ;  } print "</p>" ;  ?>  </p> </form>  </body> </html> |
| 2. | Use the same array $EU as in the previous exercise. Within the <form>-element, create a pull-down menu which lists all the countries of the European Union in alphabetical order. After the client has clicked on "OK", a message should appear indiacting the capital of the selected country. |
|  | <!DOCTYPE html public "-//W3C//DTD HTML 4.0 //EN">  <html> <head> <title>Databases and Webprogramming: Assignment 4.1</title> </head> <body bgcolor="#f9f9f9">  <?php  $EU = array( "Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels", "Denmark"=>"Copenhagen",  "Finland"=>"Helsinki", "France" => "Paris",  "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana",  "Germany" => "Berlin", "Greece" => "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "Portugal"=>"Lisbon", "Spain"=>"Madrid",  "Sweden"=>"Stockholm", "United Kingdom"=>"London",  "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius",  "Czech Republic"=>"Prague", "Estonia"=>"Tallin", "Hungary"=>"Budapest", "Latvia"=>"Riga", "Malta"=>"Valetta",  "Austria" => "Vienna", "Poland"=>"Warsaw") ;  print "<p align=\"center\">" ;  print "<form action=\"$\_SERVER[PHP\_SELF]\" form method=\"get\">" ;  /\* The pull-down menu goes here \*/ print "<input type=\"submit\" value=\"GO!\">" ;  print "</form>" ;  print "</p>" ;  if(isset($\_GET["country"])) { $country = $\_GET["country"] ;   /\* Print message indicating the capital of the selected country.  \*/ }  ?>  </p> </form>  </body> </html> |
| 3. | Add a function to the PHP scipt below which takes two parameters: (1) the number of years and (2) the amount of money to be put on a savings account. The function should calculate the amount that will have been reached after the given number of years. To print an amount with no more than two decimals, us the **sprintf** function, for instance, as follows: sprintf("%.2f", $amount ) ; |
|  | <!DOCTYPE html public "-//W3C//DTD HTML 4.0 //EN">  <html> <head> <title>Databases and Webprogramming</title> </head> <body bgcolor="#EBE9BE" text="#333333"> <head><title>Databases and Webprogramming</title></head> <body>  <?php  /\* Add function here \*/  print "<p><b>The current interest rate is 5%.</b></p>" ;  print " <p>When you deposit &#x20AC; 50 today, your savings accounts will have grown to &#x20AC;" ;  print calculateAmount(10 , 50) ; print " in 10 years.</p>" ;   print " <p>When you deposit &#x20AC; 1,500 today, your savings will have grown to &#x20AC;" ;  print calculateAmount(20 , 1500) ; print " after 5 years.</p>" ;  ?> </p> </body> </html> |

**Task 4**

**Part 1**

Create a simple PHP page which generates one of two things based on the value of the HTTP\_REFERER variable. If that variable is the empty string (not set), simply give a short message that the user didn't come from anywhere. If it is set, generate an HTML link to return to whereever you came from. [Here](http://sandbox.mc.edu/%7Ebennet/php/asst/mike.php) is a simple one.

**Part 2**

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| Time To Print |
|  |

Create a PHP web page which prints the current time in various formats and colors depending on the query string. Your php page is intended to be loaded with a simple query string which controls how the time is displayed, the page title and the background and text colors. The query string has three fields separated by colons. The first is the time format, the second is the text color and the third is the background color.

There are three legal time formats:

comp

If the query string is comp, the page title should be Computer Date/Time, and the body should contain a simple message and the time in a format similar to the Unix shell, as:

Current Time: Fri Sep 21 11:06:46 2007

Note that this uses a 24-hour clock, the values in the time field are padded to two digits.

eng

If the query string is eng, the page title should be Current Time in English, and the body should contain a simple message and the time

The current time is Friday, September 21, 11:29 AM, 2007

Note that the number of minutes must be padded to two places.

compact

If the query string is compact, the page title should be Compact Date/Time, and the body should contain no text but the date and time itself, compressed into a single digit string, in descending order of increment, as

20070921110646

for the same date and time as the first form. Of course, the year is four digits and all the other numeric fields must be two.

The second and third fields are HTML colors. If you want to use a #, encode it as %35. They should become the text and bgcolor attributes on the body tag of the output page. (Or equivalent style sheets if you prefer.)

If any parts are missing, the format defaults to comp, the text color defaults to white and the background to blue.

[time.php](http://sandbox.mc.edu/%7Ebennet/php/asst/time.php)  
[time.php?eng:brown:white](http://sandbox.mc.edu/%7Ebennet/php/asst/time.php?eng:brown:white)  
[time.php?compact::black](http://sandbox.mc.edu/%7Ebennet/php/asst/time.php?compact::black)