Gateway Technical College

PHP Web Development
152-188

Unit 6 Assignment

Introduction

Unit 6 covers basic PHP loops. Be sure to read the chapter and do the practice exercises before doing the homework.

This document contains 2 exercises that will help you practice and demonstrate your PHP skills. It is advisable to create these php files in the htdocs folder of xampp. That way you can test locally as you are working. Once you have completed all of the assignments and tested them locally, you will upload the files to Apollo.gtc.edu and to Blackboard for grading.

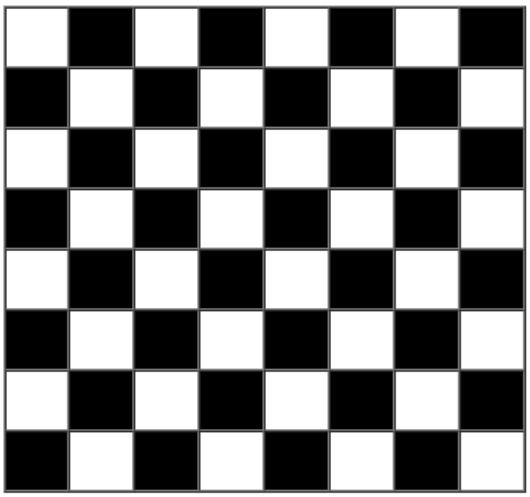
Use the **Blackboard Discussion** if you have any questions regarding the how to approach this assignment. You can also email your instructor directly for assistance if you have any questions.

Part 1 – chessnestedloop.php (50 points)

1. Follow the steps given to create a chess board in the body element. You will first create a table element and then inside a php script do a nested for loop to create the chess board.
2. **NOTE**: Instructions are in black, code is in blue text. Do NOT copy and paste as quotes and other items will not paste correctly and there is knowledge transfer when you type the code. You are given all of the code, but be mindful of opening closing curly braces, semi colons, etc.
3. Create a new PHP document chessnestedloop.php using Notepad++, VSCode, PHPStorm or the editor or your choice.
4. Use the html template to include doctype declaration, html element, head, and body elements. The title element should contain the title "Chess Board".
5. After the opening body tag create an h3 element with the following text: Chess Board using Nested For Loop
6. Create a table element that will be 270px wide (8 columns x 60px)
    a. <table width="270px" cellspacing="0px" cellpadding="0px" border="1px">
    b. Start your php script
    c. Create a for loop to generate the rows of the chess board
    d. for($row=1;$row<=8;$row++)
    e. The first line of the for loop echos a table row like this:
    f. {
        i. Echo "<tr>";
        ii. Start the nested loop
        iii. for($col=1;$col<=8;$col++)
        iv. {
            1. Add the row variable to the column variable and assign to total variable
            2. $total=$row+$col;
            3. Use if condition to evaluate if total is even number
            4. if($total%2==0)
            5. {
            6. If true td cell background color is white, size is 30px by 30px
            7. echo "<td height=30px width=30px bgcolor=#FFFFFF></td>";}
            8. If false td cell background is black, size is 30px by 30px
            9. else
            10. {echo "<td height=30px width=30px bgcolor=#000000></td>";}
            11. Close the inner loop
            12. Outside of the inner for loop close the table row (tr)
        v. } echo "</tr>";
        vi. Be sure to close the outside for loop with closing curly brace.
        vii. Close your php script
        viii. Close the table, body, and html
7. Upload chessnestedloop.php file to Apollo.gtc.edu
8. Submit your php file and working URL in Blackboard.

Expected output in browser:

Chess Board using Nested For Loop



Part 2 – chinesezodiacforloop.php (50 points)

Supplemental information:

This exercise requires the use of images placed in an images folder. The images are in a zipped folder along with the starter file for this project. Be sure to upload the images folder to Apollo when you are done. Have fun with this one!

Exercise:

1. Download and unzip the project folder.
2. Save the images folder and the Chinese_zodiac_for_loop_starter.php file to your htdocs folder.
3. Review the existing code in the file. Note that there are comments in the file and the numbers indicate which step in these directions you are on.
4. The php script is started for you with an array called $SignNames. This array holds all of the animal names that will fill the top row of the table.
5. Using echo start a new table and row
   ```
   echo "<table>";
   echo "<tr>";
   ```
6. Start a for loop, counter starts at 0, condition is while counter is less than 12
   ```
   for ($i=0; $i<12; ++$i) {
   ```
7. Echo out the sign names in the table heading
   ```
   echo "<th>". $SignNames[$i] . "<br />";
   ```
8. Echo out the images from the images folder on the next row. Use the img element and the $SignNames array to loop through the array to add the filename and append .png to each file.
   ```
   echo "<img src='Images/". $SignNames[$i]. ".png' alt='".
   ```

```
$SignNames[$i]. "' title='". $SignNames[$i]. "' /></th>";}
```

9. Create a for loop initialize variable starting at year 1912 ending in current year. Use the date function.

```
for ($i=1912; $i<=date("Y"); ++$i) {
```

10. Determine which column each year goes in by subtracting 1912 from the value of $i use mod 12 to determine if == to 0.

```
if ((($i-1912)%12)==0) {
```

11. if condition is true, end the row

```
echo "</tr>";
```

12. Start new row

```
echo "<tr>";
```

13. close the for loop with a }
14. echo value of $i (current year)

```
echo "<td>$i</td>";
```

15. close the for loop with a }
16. Close row and table

```
echo "</tr>";

echo "</table>";
```

17. Close php script, body, and html

Expected output in browser:

Chinese Zodiac for loop

Rat	Ox	Tiger	Rabbit	Dragon	Snake	Horse	Goat	Monkey	Rooster	Dog	Pig
1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2020	2021										

Submission

- Upload your files to your Apollo account if you haven't already done so
- Submit both working URLs of this assignment in write submission in Blackboard
- Also upload the php files in a zipped folder along with any additional documents to Blackboard