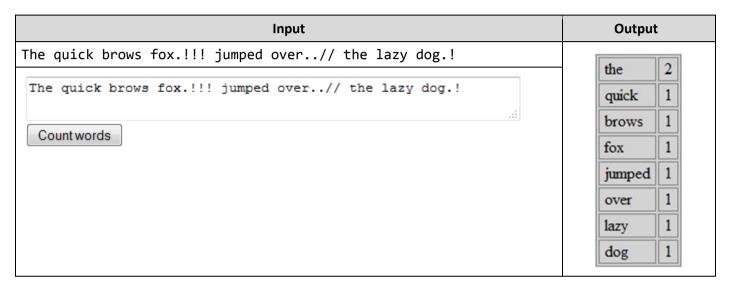
# Homework: PHP Arrays, String and Objects

This document defines the homework assignments from the "PHP Basics" Course @ Software University. Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## **Problem 1. Word Mapping**

Write a PHP program WordMapper.php that takes a text from a textarea and prints each word and the number of times it occurs in the text. The search should be case-insensitive. The result should be printed as an HTML table.



## **Problem 2. Coloring Texts**

Write a PHP program TextColorer.php that takes a text from a textfield, colors each character according to its ASCII value and prints the result. If the ASCII value of a character is odd, the character should be printed in blue. If it's even, it should be printed in red.

Input	Output
What a wonderful world!	Whatawonderfulworld!
What a wonderful world!	
Color text	

# Problem 3. Sidebar Builder

Write a PHP program SidebarBuilder.php that takes data from several input fields and builds 3 sidebars. The input fields are categories, tags and months. The first sidebar should contain a list of the categories, the second sidebar – a list of the tags and the third should contain the months. The entries in the input strings will be separated by a comma and space ", ". Styling the page is optional. Semantic HTML is required.



















	Input	Output
categories	Knitting, Cycling, Swimming, Dancing	
tags	person, free time, love, peace, protest	Categories
months	April, May, June, July	○ <u>Knitting</u>
	Cycling, Swimming, Dancing me, love, peace, protest	<ul> <li>Cycling</li> <li>Swimming</li> <li>Dancing</li> </ul>
Months: April, May,		Tags
Generate		o person o free time o love o peace o protest
		Months  o April o May o June o July

### Problem 4. Text Filter

Write a PHP program TextFilter.php that takes a text from a textfield and a string of banned words from a text input field. All words included in the ban list should be replaced with asterisks "\*", equal to the word's length. The entries in the banlist will be separated by a comma and space ", ".

Input		Output	
text	It is not Linux, it is GNU/Linux. Linux is merely the kernel, while GNU adds the functionality. Therefore we owe it to them by calling the OS GNU/Linux! Sincerely, a Windows client	It is not *****, it is GNU/****.  ***** is merely the kernel, while GNU adds the functionality.  Therefore we owe it to them by calling the OS GNU/****!  Sincerely, a ****** client	
banlist	Linux, Windows		

### **Problem 5. Sentence Extractor**

Write a PHP program SentenceExtractor.php that takes a text from a textarea and a word from an input field and prints all sentences from the text, containing that word. A sentence is any sequence of words ending with ., ! or ?.





















Input		Output
text	This <b>is</b> my cat! And this <b>is</b> my dog. We happily live in Paris – the most beautiful city in the world! Isn't it great? Well it is:)	This is my cat! And this is my dog.
word	is	

## Problem 6. URL Replacer

Write a PHP program URLReplacer.php that takes a text from a textarea and replaces all URLs with the HTML syntax <a href= "..." ></a> with a special forum-style syntax [URL=...][/URL].

Input		Output	
text	<pre>Come and visit <a href="http://softuni.bg">the Software University</a> to master the art of programming. You can always check our <a href="www.softuni.bg/forum">forum</a> if you have any questions.</pre>		

#### Problem 7. \* SoftUni Seminar Generator

Write a PHP program SeminarGenerator.php that receives information about seminars from a textarea, holding each seminar on a separate line, and prints the data as an HTML table. The information about the seminars comes in format: [Seminar name]-[Lecturer's name]-[dd-mm-YYYY hh:MM] [Seminar info], where mm denotes the month and MM denotes the minutes. Each seminar should be put on a separate table row with cells Seminar name, Date and Participation. The user should be able to sort the seminars by Name or Date in Ascending/Descending order. On hover over a seminar's name, a details box should appear. The box should contain information about the lecturer and a description. See the example below. The box should follow the cursor and disappear when the mouse leaves the seminar's name. Styling the page is optional. Semantic HTML is required. Use objects for handling the seminar data.

Hint: You can achieve the popup box functionality by rendering the seminar details boxes as hidden DIVs and display them with absolute positioning with JavaScript.

#### Input

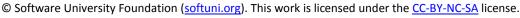
Debugging with WordPress-Mario Peshev-28-08-2014 18:00 WordPress is a free and open source blogging tool and a content management system (CMS) based on PHP and MySQL... First steps with Laravel-Ivan Vankov-31-08-2014 19:00 Laravel is a free, open source PHP web application framework, designed for the development of model-view-controller (MVC) web applications. According to...

JavaScript with .NET-Pavel Kolev-12-09-2014 17:00 JavaScript (JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously...

SEO optimization, social networks, digital marketing-Ognyan Mladenov-05-07-2014 18:00 Search engine optimization (SEO) is the process of affecting the visibility of a website or a web page in a search engine's "natural" or un-paid ("organic") search results. In general, the earlier (or higher ranked on the search results page), and more frequently...

Basic Game Theory-Georgi Georgiev-16-06-2014 15:00 Game theory is a study of strategic decision making. Specifically, it is "the study of mathematical models of conflict and cooperation between intelligent rational decision-makers". An





















#### alternative term suggested "as a more descriptive name for the discipline" is interactive decision theory. Game theory is mainly used in economics...

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Name

Sort by: Date ▼ Order by: Descending ▼ Submit

#### Result

Seminar name	Date	Participate
JavaScript with .NET	12-09-2014 17:00	SIGN UP
First steps with Laravel	31-08-2014 19:00	SIGN UP
Debugging with WordPress	28-08-2014 18:00	SIGN UP
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