

Homework: PHP Syntax

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. Personal Info

Write a PHP script **PersonalInfo.php**. Declare a few variables. The **first** variable should hold your **first name**, the **second** should hold your **last name**, the **third** - your **age**, and the last one should hold your **full name** (use **concatenation**). The result should be printed. Sample output:

Output
My name is Mister DakMan and I am 21 years old.
My name is Pesho Peshev and I am 55 years old.

Problem 2. Sum Two Numbers

Write a PHP script **SumTwoNumbers.php** that declares two variables, **firstNumber** and **secondNumber**. They should hold integer or floating-point numbers (hard-coded values). Print their **sum** in the output in the format shown in the examples below. The numbers should be **rounded to the second** number after the decimal point. Find in Internet how to **round** a given number in PHP. Examples:

Input	Output
2 5	<code>\$firstNumber + \$secondNumber = 2 + 5 = 7.00</code>
1.567808 0.356	<code>\$firstNumber + \$secondNumber = 1.567808 + 0.356 = 1.92</code>
1234.5678 333	<code>\$firstNumber + \$secondNumber = 1234.5678 + 333 = 1567.57</code>

Problem 3. Dump Variable

Write a PHP script **DumpVariable.php** that declares a variable. If the variable is **numeric**, **print it** by the built-in function **var_dump()**. If the variable is **not numeric**, **print its type** at the input. Examples:

Input	Output
"hello"	string
15	int(15)
1.234	double(1.234)
array(1,2,3)	array
(object)[2,34]	object

Problem 4. Non-Repeating Digits

Write a PHP script **NonRepeatingDigits.php** that declares an integer variable **N**, and then finds all 3-digit numbers that are less or equal than **N** (**<= N**) and consist of unique digits. Print "no" if no such numbers exist. Examples:

Input	Output
1234	102, 103, 104, 105, 106, 107, 108, 109, 120, 123, 124, 125, 126, 127, 128, 129, 130, 132, 134, 135, ..., 980, 981, 982, 983, 984, 985, 986, 987
145	102, 103, 104, 105, 106, 107, 108, 109, 120, 123, 124, 125, 126, 127, 128, 129, 130, 132, 134, 135, 136, 137, 138, 139, 140, 142, 143, 145
15	no
247	102, 103, 104, 105, 106, 107, 108, 109, 120, 123, 124, 125, 126, 127, 128, 129, 130, 132, 134, 135, 136, 137, 138, 139, 140, 142, 143, 145, 146, 147, 148, 149, 150, 152, 153, 154, 156, 157, 158, 159, 160, 162, 163, 164, 165, 167, 168, 169, 170, 172, 173, 174, 175, 176, 178, 179, 180, 182, 183, 184, 185, 186, 187, 189, 190, 192, 193, 194, 195, 196, 197, 198, 201, 203, 204, 205, 206, 207, 208, 209, 210, 213, 214, 215, 216, 217, 218, 219, 230, 231, 234, 235, 236, 237, 238, 239, 240, 241, 243, 245, 246, 247

Problem 5. Lazy Sundays

Write a PHP script **LazySundays.php** which prints the **dates** of all Sundays in the current month. Example:

3rd August, 2014
10th August, 2014
17th August, 2014
24th August, 2014
31st August, 2014

Problem 6. HTML Table

Write a PHP script **InformationTable.php** which **generates an HTML table** by given information about a person (**name, phone number, age, address**). Styling the table is *optional*. Semantic HTML is required. Examples:

Input	Output								
Gosho 0882-321-423 24 Hadji Dimitar	<table> <tr> <td>Name</td><td>Gosho</td></tr> <tr> <td>Phone number</td><td>0882-321-423</td></tr> <tr> <td>Age</td><td>24</td></tr> <tr> <td>Address</td><td>Hadji Dimitar</td></tr> </table>	Name	Gosho	Phone number	0882-321-423	Age	24	Address	Hadji Dimitar
Name	Gosho								
Phone number	0882-321-423								
Age	24								
Address	Hadji Dimitar								
Pesho 0884-888-888 67 Suhata Reka	<table> <tr> <td>Name</td><td>Pesho</td></tr> <tr> <td>Phone number</td><td>0884-888-888</td></tr> <tr> <td>Age</td><td>67</td></tr> <tr> <td>Address</td><td>Suhata Reka</td></tr> </table>	Name	Pesho	Phone number	0884-888-888	Age	67	Address	Suhata Reka
Name	Pesho								
Phone number	0884-888-888								
Age	67								
Address	Suhata Reka								

Problem 7. Form Data

Write a PHP script **GetFormData.php** which retrieves the **input data from an HTML form**, and displays it as string. The input fields should hold **name, age** and **gender** (radio buttons). The returned string should be a message containing the information submitted by the form. 100% accuracy is *NOT* required. Semantic HTML is required. Example:

Input	Output
<input type="text" value="Todor"/> <input type="text" value="24"/> <input checked="" type="radio"/> Male <input type="radio"/> Female <input type="button" value="Изпращане"/>	<input type="text" value="Name.."/> <input type="text" value="Age.."/> <input type="radio"/> Male <input type="radio"/> Female <input type="button" value="Изпращане"/> My name is Todor. I am 24 years old. I am male.

Problem 8. * Time Until New Year

Write a PHP script **TimeUntilNewYear.php**. Use the built-in function **getdate()** to get the current date and time. Print how many **hours, minutes and seconds** are left until New Year and how many **days, hours, minutes and seconds** are left in a **counter format**. Look at examples below to get a better idea. The **examples** show the current date and time in "**d-m-Y G:i:s**" format. Check [here](#) for date/time formats in PHP.

Examples	Output
12-08-2014 13:07:09	Hours until new year : 3395 Minutes until new year : 203693 Seconds until new year : 1222191 Days:Hours:Minutes:Seconds 142:10:53:51
12-08-2014 11:08:47	Hours until new year : 3397 Minutes until new year : 203812 Seconds until new year : 1222873 Days:Hours:Minutes:Seconds 142:12:52:13

Problem 9. ** Awesome Calendar

Write a PHP script **AwesomeCalendar.php** which creates a calendar in HTML **for a given year**. Styling the calendar is *optional*. Semantic HTML is required. Hint: Embed HTML in your PHP code. Use *tables* or *divs* for structuring the calendar. Look for a way to find the day of the week.

2014

Януари							Февруари							Март							Април							
По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	
			1	2	3	4	5						1	2							1	2	3	4	5	6		
6	7	8	9	10	11	12		3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19		10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26		17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31				24	25	26	27	28			24	25	26	27	28	29	30	28	29	30				
															31													
Май							Юни							Юли							Август							
По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	
				1	2	3	4						1		1	2	3	4	5	6						1	2	3
5	6	7	8	9	10	11		2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
12	13	14	15	16	17	18		9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
19	20	21	22	23	24	25		16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
26	27	28	29	30	31			23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	31
								30																				
Септември							Октомври							Ноември							Декември							
По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	По	Вт	Ср	Чт	Пе	Сб	Не	
	1	2	3	4	5	6	7			1	2	3	4	5					1	2		1	2	3	4	5	6	7
8	9	10	11	12	13	14		6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21		13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28		20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30							27	28	29	30	31			24	25	26	27	28	29	30	29	30	31				