# Homework: PHP Syntax

This document defines the homework assignments from the [“PHP Basics“ Course @ Software University](https://softuni.bg/courses/php-basics/). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## 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. |

## Sum Two Numbers

Write a PHP script **SumTwoNumbers.php** that decleares 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 | $firstNumber + $secondNumber = 2 + 5 = 7.00 |
| 1.567808  0.356 | $firstNumber + $secondNumber = 1.567808 + 0.356 = 1.92 |
| 1234.5678  333 | $firstNumber + $secondNumber = 1234.5678 + 333 = 1567.57 |

## 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 | float(1.234) |
| array(1,2,3) | array |
| (object)[2,34] | object |

## 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 |

## Lazy Sundays

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

## 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 |  |
| Pesho  0884-888-888  67  Suhata Reka |  |

## 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** |
|  |  |

## \* 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 leftin 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. Use **the current time**. Check [here](http://bg2.php.net/manual/en/function.date.php) for date/time formats in PHP. (Note: Keep [the Spring/Autumn time shifts](http://en.wikipedia.org/wiki/Daylight_saving_time#Procedure) in mind in your calculations.)

|  |  |
| --- | --- |
| **Examples** | **Output** |
| 12-08-2014 13:07:09 | Hours until new year : 3394  Minutes until new year : 203 692  Seconds until new year : 12 221 570  Days:Hours:Minutes:Seconds 141:10:52:50 |
| 12-08-2014 11:08:47 | Hours until new year : 3396  Minutes until new year : 203 811  Seconds until new year : 12 228 672  Days:Hours:Minutes:Seconds 141:12:51:12 |

## \*\* 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.

