# Homework: PHP Syntax

This document defines the homework assignments from the [“PHP Basics“ Course @ Software University](https://softuni.bg/trainings/coursesinstances/details/5). 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. |

## Rich People’s Problems

You are a very rich billionaire with unhidden passion for cars. You like certain car manufacturers but you don’t really care about anything else, that’s why you need your own randomizing algorithm that helps you decide how many and what exact colors cars you should buy. Write a PHP script **CarRandomizer.php** that gets **a string of cars as an input** and **outputs the list of cars**, a random **color** and a random **quantity** in a **table** as the ones shown below. *Styling the page is optional.* Examples:

|  |  |
| --- | --- |
| **Input** | **Output** |
| “Mitsubishi, Maseratti, Maybach” | C:\Users\Mitko\AppData\Local\Microsoft\Windows\INetCache\Content.Word\02_output1.png |

## Show Annual Expenses

Write a PHP script **AnnualExpenses.php** takes a number **N** as an input. Create an output **table** (like the one shown below) with **random expenses** by **months** and the corresponding **years** N years back. E.g. if N is 10, create a table that shows the expenses for each month for the last 10 years. Add a **Total column** at the end, showing the total expenses for the same year. *Styling the page is optional.* Examples:

|  |  |
| --- | --- |
| **Input** |  |
| **Output** | C:\Users\Mitko\AppData\Local\Microsoft\Windows\INetCache\Content.Word\03_output1.png |

## 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** |
| C:\Users\bubbles\Desktop\formInput.png | C:\Users\bubbles\Desktop\form.png |

## \* 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. Check [here](http://bg2.php.net/manual/en/function.date.php) 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 |

## \*\* 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.

