

Lab: PHP Syntax, Basic Web

Problems for exercises and homework for the [“Software Technologies” course @ SoftUni](#).

You can submit your solutions here <https://judge.softuni.bg/Contests/697/PHP-Basic-Syntax-Lab>.

1. Hello, PHP!

Write PHP script to print **"Hello, PHP!"**

Examples

Output
Hello, PHP!

2. Numbers 1 to 20

Write a PHP script, which prints the **numbers** from **1 to 20** in a list. Every number on **odd** line should be **blue** and every number on **even** line should be **green**. The list should have the following structure

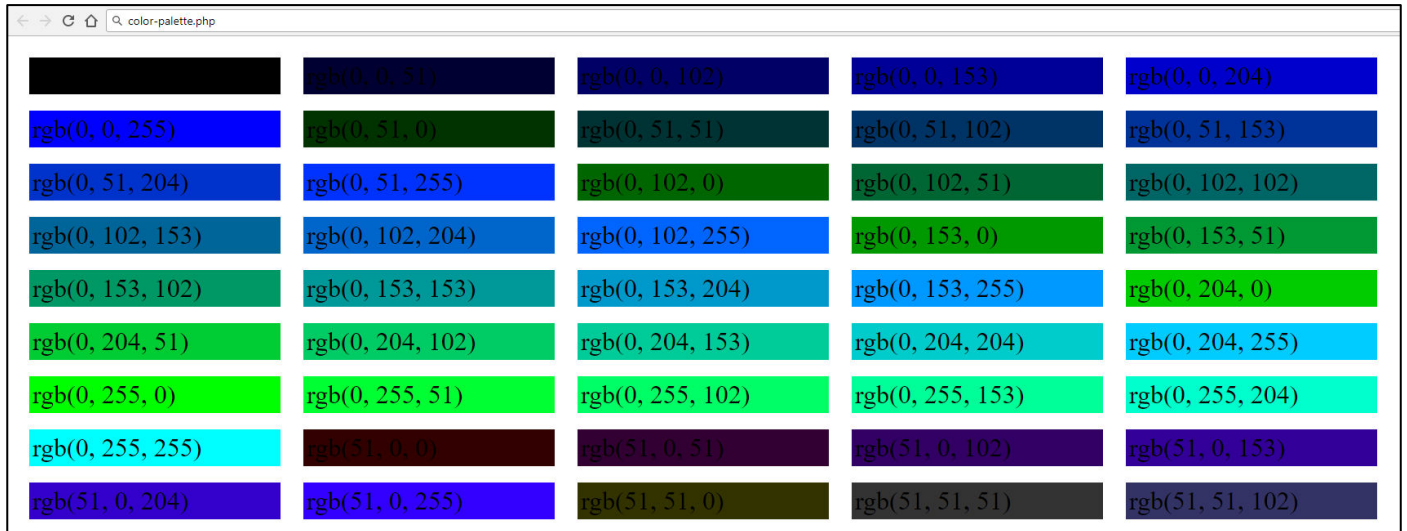
```
<ul>
  <li><span style='color:blue'>1</span></li>
  <li><span style='color:green'>2</span></li>
  <li><span style='color:blue'>3</span></li>
  ...
</ul>
```

Examples

Output
<ul style="list-style-type: none">• 1• 2• 3• 4• 5...

3. Color Palette

Write a PHP script to print a **color palette** like shown below:



Hints

- Every `<div>` should have the following structure:

```
<div style='background:rgb(0, 0, 0) '>rgb(0, 0, 0)</div>
<div style='background:rgb(0, 0, 51) '>rgb(0, 0, 51)</div>
...
<div style='background:rgb(0, 0, 255) '>rgb(0, 0, 255)</div>
<div style='background:rgb(0, 51, 0) '>rgb(0, 51, 0)</div>
```

- Add the following `.css` in the `<head>` section:

```
div {
  display: inline-block;
  width: 150px;
  padding: 2px;
  margin: 5px;
}
```

4. Hello, Person!

Write a program which receives a **name** from a **form** and prints in the html the **following greeting** (after you click on the **[Submit]** button). The **form** should **disappear** after clicking the input.:

- Hello, {name}!

You should read the name from the following form:

```
<form>
  Name: <input type="text" name="person" />
  <input type="submit" />
</form>
```

Examples

Name:

➔

Hello, Pesho!

5. Dump an HTTP GET Request

Write a PHP script to dump the **content** of the **HTTP GET** request parameters using **var_dump(...)**. Dump the content of the following form:

```
<form>
  <div>Name:</div>
  <input type="text" name="personName"/>
  <div>Age:</div>
  <input type="number" name="age"/>
  <div>Town:</div>
  <select name="townId">
    <option value="10">Sofia</option>
    <option value="20">Varna</option>
    <option
value="30">Plodvid</option>
  </select>
  <div><input type="submit"/></div>
</form>
```

Examples

Name:

Age:

Town:

C:\xampp\htdocs\PHPBasicSyntax\05.Dumpo.php:14:
array (size=0)
empty



Name:

Age:

Town:

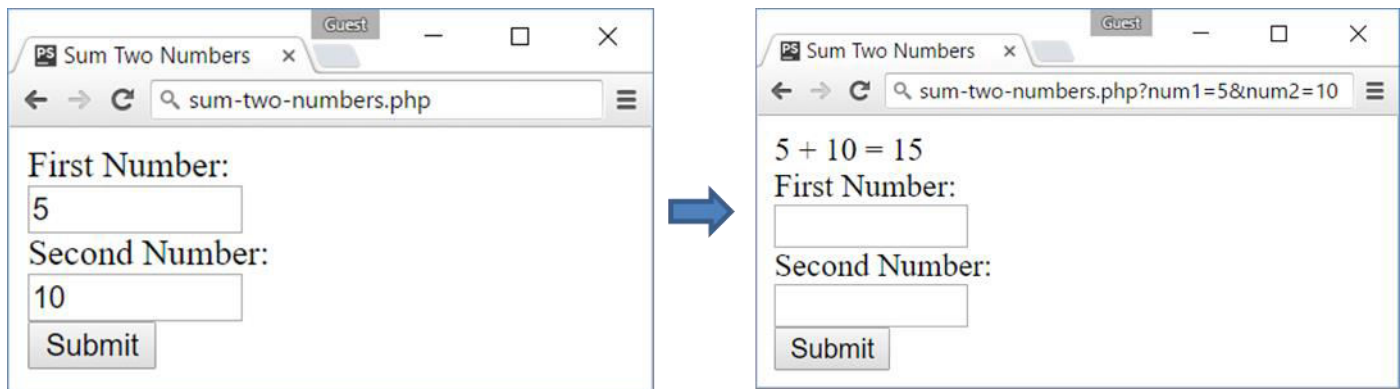
C:\xampp\htdocs\PHPBasicSyntax\05.Dumpo.php:14:
array (size=3)
 'personName' => string 'Nakov' (length=5)
 'age' => string '26' (length=2)
 'townId' => string '10' (length=2)

6. Sum Two Numbers

Write a PHP script to sum two numbers. The script should display a HTML form to enter the numbers. If the numbers are passed as parameters, display their sum. You will receive the input from the following form:

```
<form>
  <div>First Number:</div>
  <input type="number" name="num1" />
  <div>Second Number:</div>
  <input type="number" name="num2" />
  <div><input type="submit" /></div>
</form>
```

Examples



7. From Celsius to Fahrenheit and Vice Versa

Write a PHP script to convert from Celsius to Fahrenheit ($0^{\circ}\text{C} = 32^{\circ}\text{F}$).

- If you convert from Celsius to Fahrenheit print:
 - `"{degreesCelsius} °C = {degreesFahrenheit} °F"`
- If you convert from Fahrenheit to Celsius print:
 - `"{degreesFahrenheit} °F = {degreesCelsius} °C"`

The form you should use is the following:

```
<form>
  Celsius: <input type="text" name="cel" />
  <input type="submit" value="Convert">
  <?= $msgAfterCelsius ?>
</form>
<form>
  Fahrenheit: <input type="text" name="fah" />
  <input type="submit" value="Convert">
</form>
```

Examples

Celsius: 37

Convert

Fahrenheit:

Convert

Celsius:

Convert

37 °C = 98.6 °F

Fahrenheit:

Convert

Hints

- Use `°` for the degrees sign - °

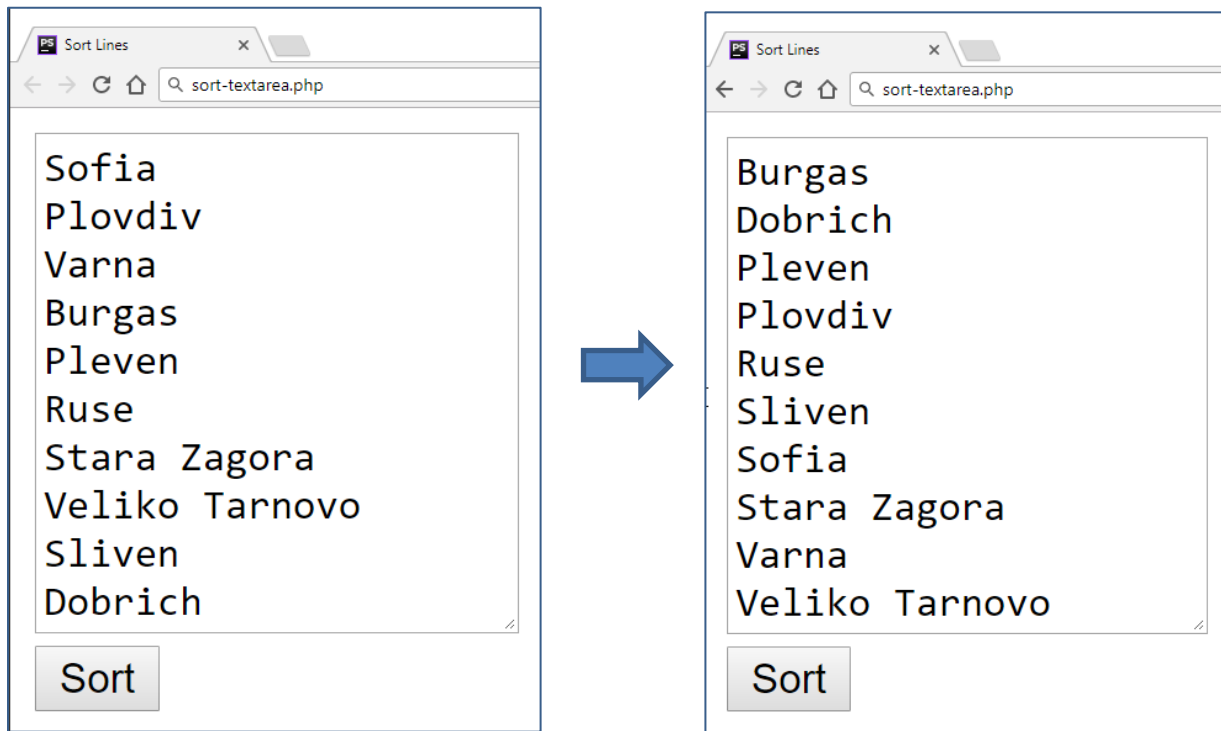
8. Sort Lines

Write a PHP script that **sorts** the **text** lines from a `<textarea>`. Take the input from the following form:

```
<form>
```

```
<textarea rows="10" name="lines"><?= $sortedLines
?></textarea> <br>
<input type="submit" value="Sort">
</form>
```

Examples



9. Extract Capital-Case Words

Write a **PHP** script to extract all **capital-case** words from an **array** of **strings**. All **non-letter** chars are considered **separators**. Use the following form:

```
<form>
<textarea rows="10" name="text">textarea> <br>
<input type="submit" value="Extract">
</form>
```

Examples

Input	Output
We start by HTML, CSS, JavaScript, JSON and REST. Later we touch some PHP, MySQL and SQL. Later we play with C#, EF, SQL Server and ASP.NET MVC. Finally, we touch some Java, Hibernate and Spring.MVC.	HTML, CSS, JSON, REST, PHP, SQL, C, EF, SQL, ASP, NET, MVC, MVC