Section 1 Prise en main du langage PHP

```php
<?php

$a = 10.52;
$b = pow(1.5, 4);

printf(gettype($a) . "<br>");
printf(gettype($b) . "<br>");

$c = "TransFOrmeZ unE ChaîNE écRITe dans des cASses diFFéreNTes afiN
qUe chAQue MOT ait une inITiale en MAJUSCULE";

$result = "";
$isNewWord = true;

for ($i = 0; $i < strlen($c); $i++) {
    $char = $c[$i];

    if ($char == " " || $char == "\n") {
        $result .= $char;
        $isNewWord = true;
    } else {
        if ($isNewWord) {
            $result .= strtoupper($char);
            $isNewWord = false;
        } else {
            $result .= strtolower($char);
        }
    }
}

echo $result;
echo "<br>";
echo date("l jS \\of F Y");
echo "<br>";
```

double
double
Transformez Une Chaîne écrite Dans Des Casses Différentes Afin Que Chaque Mot Ait Une Initiale En Majuscule
Tuesday 21st of January 2025

Section 2 Les tableaux PHP

```php
$age = array("Peter" => "35", "ben" => "37", "Joe" => "45");
$tab = array(
    "Dupont" => array("Paul", "Paris", 27),
    "Schmoll" => array("Kirk", "Berlin", 35),
    "Smith" => array("Stan", "Londres", 45)
);

echo $age["Peter"];
echo "<br>";
echo $tab["Smith"][1];
echo "<br>";
```

35
Londres

Section 3 Les tableaux et boucles

```php
function ligne($x, $valeur) {
    echo "<tr><td>$x</td><td>" . number_format($valeur, 3) . "</td></tr>";
}

$sinusTable = [];
for ($x = 0; $x < 46; $x++) {
    $sinusTable[$x] = sin($x);
}

echo '<table border="1" width="50%">';
echo "<caption><b>Tableau de valeurs de sinus</b></caption>";
echo "<tr><th>X</th><th>sin(X)</th></tr>";

foreach ($sinusTable as $x => $valeur) {
    ligne($x, $valeur);
}
echo "</table>";
echo "<br>";

?>
```

Tableau de valeurs de sinus

X	sin(X)
0	0.000
1	0.841
2	0.909
3	0.141
4	-0.757
5	-0.959
6	-0.279
7	0.657
8	0.989
9	0.412
10	-0.544
11	-1.000
12	-0.537
13	0.420
14	0.991
15	0.650
16	-0.288
17	-0.961
18	-0.751
19	0.150
20	0.913
21	0.837
22	-0.009
23	-0.846
24	-0.906
25	-0.132
26	0.763
27	0.956
28	0.271
29	-0.664
30	-0.988
31	-0.404

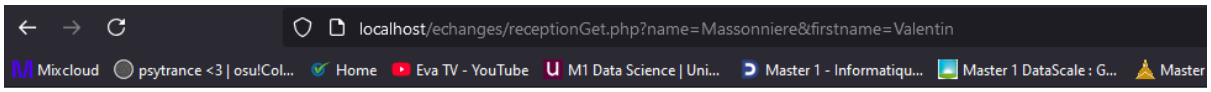
Section 4 Méthode d’échange Get

echanges > receptionGet.php > ...

```php
<?php
if (isset($_GET['name']) && isset($_GET['firstname'])) {
    $name = htmlspecialchars($_GET['name']);
    $firstname = htmlspecialchars($_GET['firstname']);

    echo "<h1>Hello, $firstname $name !</h1>";
} else {
    echo "<h1>No data found </h1>";
}

echo "<p>Method use : " . htmlspecialchars($_SERVER['REQUEST_METHOD']) . "</p>";
?>
```

echanges > envoie.html > ...

```html
<!DOCTYPE html>
<html lang="fr">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <h1>Send data</h1>
    <a href="receptionGet.php?name=Massonniere&firstname=Valentin"
      >Send name and firstname</a
    >
  </body>
</html>
```

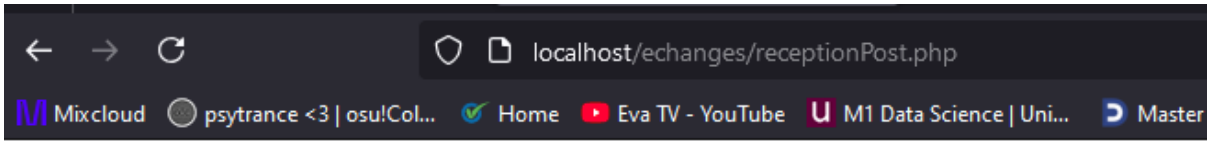


Hello, Valentin Massonniere !

Method use : GET

Section 5 Méthode d’échange Post

```php
<?php
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    function testValue($data) {
        return htmlspecialchars(trim($data));
    }

    $name = isset($_POST['name']) ? testValue($_POST['name']) : "Not send";
    $firtname = isset($_POST['firtname']) ? testValue($_POST['firtname']) : "Not send";
    $age = isset($_POST['age']) ? testValue($_POST['age']) : "Not send";

    echo "<h1>Hello, $firtname $name !</h1>";
    echo "<p>Age : $age y</p>";

    echo "<h2>Data :</h2>";
    echo "<ul>";
    foreach ($_POST as $champ => $valeur) {
        echo "<li>$champ : " . testValue($valeur) . "</li>";
    }
    echo "</ul>";
} else {
    echo "<h1>Erreur : Only post method allowed.</h1>";
}
?>
```



Hello, Not send Massonniere !

Age : 22 y

Data :

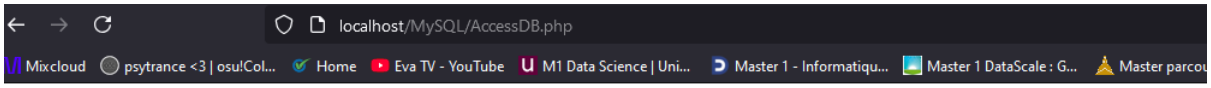
- name : Massonniere
- firstname : Valentin
- age : 22

Section 6 Echange de fichier Navigateur vers le serveur

```php
<?php
if (isset($_FILES['myfile']) && $_FILES['myfile']['error'] === UPLOAD_ERR_OK) {
    $fileName = $_FILES['myfile']['name'];
    $fileType = $_FILES['myfile']['type'];
    $fileSize = $_FILES['myfile']['size'];
    $fileTmp = $_FILES['myfile']['tmp_name'];
    $filePath = 'uploads/';
    if (!is_dir($filePath)) {
        mkdir($filePath, 0777, true);
    }

    $finalPath = $filePath . basename($fileName);
    if (move_uploaded_file($fileTmp, $finalPath)) {
        echo "<h1>Fichier envoyé avec succès !</h1>";
        echo "<p>Name : $fileName</p>";
        echo "<p>Type : $fileType</p>";
        echo "<p>Size : " . round($fileSize / 1024, 2) . " Ko</p>";
        echo "<p>Path : $    $finalPath = $filePath . basename($fileName);
</p>";
    } else {
        echo "<h1>Error.</h1>";
    }
} else {
    echo "<h1>Error : No file send.</h1>";
}
?>
```

Section 8 Utiliser une base de données

```php
<?php
try {
    $bdd = new PDO('mysql:host=localhost;dbname=PHPtest;charset=utf8', 'root', '');
    $bdd->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
} catch (Exception $e) {
    die('<h1>Error : </h1>' . $e->getMessage());
}

try {
    $requete = $bdd->query('SELECT * FROM articles');
    $articles = $requete->fetchAll(PDO::FETCH_ASSOC);

    echo '<table border="1" width="50%">';
    echo '<caption><b>List of articles</b></caption>';
    echo '<tr><th>ID</th><th>Name</th><th>Brand</th><th>Price</th></tr>';
    foreach ($articles as $article) {
        echo '<tr>';
        echo '<td>' . htmlspecialchars($article['id']) . '</td>';
        echo '<td>' . htmlspecialchars($article['nom']) . '</td>';
        echo '<td>' . htmlspecialchars($article['marque']) . '</td>';
        echo '<td>' . number_format($article['prix'], 2) . ' €</td>';
        echo '</tr>';
    }
    echo '</table>';
} catch (Exception $e) {
    echo '<h1>Error with the data reception : </h1>' . $e->getMessage();
}
?>
```



List of articles

ID	Name	Brand	Price
1	EX bike 700S	Asics	700.00 €
2	Dérailleur asics 700 X	Asics	80.00 €
3	Vélocity 400	Bobike	450.00 €
4	Brunch 27	Curana	350.00 €
5	Delta 500	Delta	650.00 €
6	Delta 600	Delta	700.00 €

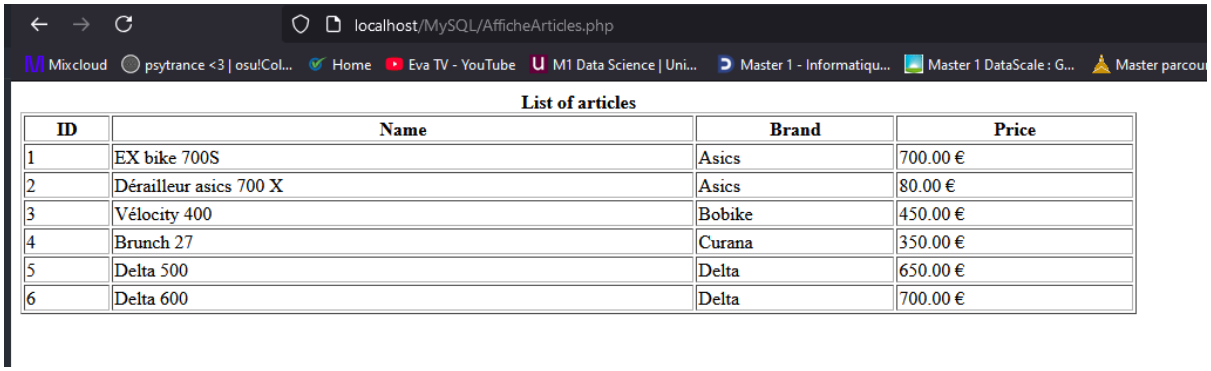
Section 11 Utilisation des Objets PHP

QL > AfficheArticles.php > ...

```php
<?php
require_once 'Articles.php';

try {
    $bdd = new PDO('mysql:host=localhost;dbname=PHPtest;charset=utf8', 'root', '');
    $bdd->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    $articles = new Articles();
    $articles->fetchArticlesFromDB($bdd);

    $articles->display();
} catch (Exception $e) {
    die('Erreur : ' . $e->getMessage());
}
?>
```

ySQL > Articles.php > Article > display

```php
<?php
class Article {
    private $id;
    private $name;
    private $brand;
    private $price;

    public function __construct($id, $name, $brand, $price) {
        $this->id = $id;
        $this->name = $name;
        $this->brand = $brand;
        $this->price = $price;
    }

    public function display() {
        echo "<tr>";
        echo "<td>" . htmlspecialchars($this->id) . "</td>";
        echo "<td>" . htmlspecialchars($this->name) . "</td>";
        echo "<td>" . htmlspecialchars($this->brand) . "</td>";
        echo "<td>" . number_format($this->price, 2) . " €</td>";
        echo "</tr>";
    }
}

class Articles {
    private $articles = [];

    public function fetchArticlesFromDB($database) {
        $query = $database->query('SELECT * FROM articles');
        $results = $query->fetchAll(PDO::FETCH_ASSOC);

        foreach ($results as $row) {
            $this->articles[] = new Article($row['id'], $row['nom'], $row['marque'], $row['prix']);
        }
    }

    public function display() {
        echo '<table border="1" width="50%">';
        echo '<caption><b>List of articles</b></caption>';
        echo '<tr><th>ID</th><th>Name</th><th>Brand</th><th>Price</th></tr>';

        foreach ($this->articles as $article) {
            $article->display();
        }

        echo '</table>';
    }
}
?>
```



List of articles

ID	Name	Brand	Price
1	EX bike 700S	Asics	700.00 €
2	Dérailleur asics 700 X	Asics	80.00 €
3	Vélocity 400	Bobike	450.00 €
4	Brunch 27	Curana	350.00 €
5	Delta 500	Delta	650.00 €
6	Delta 600	Delta	700.00 €