

## PHP NOTES

### Hello world program

```
<?php  
echo "Hello World!";  
?>
```

---

### Working of Conditions in php

```
<?php if ($expression == true): ?>  
    This HTML statement will be rendered.  
<?php else: ?>  
    Otherwise this HTML statement will be rendered.  
<?php endif; ?>
```

---

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php  
$color = "red";  
echo "My car is " . $color . "<br>";  
echo "My house is " . $COLOR . "<br>";  
echo "My boat is " . $coLOR . "<br>";  
?>
```

```
</body>
```

```
</html>
```

---

The `+ 15` part will be ignored in the calculation:

```
$x = 5 /* + 15 */ + 5;  
echo $x;
```

---

The `var_dump()` function returns the data type and the value:

---

```
echo "<h2>PHP is Fun!</h2>";
echo "Hello world!<br>";
echo "I'm about to learn PHP!<br>";
echo "This ", "string ", "was ", "made ", "with multiple parameters.";
```

---

```
<?php
$cars = array("Volvo","BMW","Toyota");
var_dump($cars);
?>
```

---

## PHP Object

```
class Car {
    public $color;
    public $model;
    public function __construct($color, $model) {
        $this->color = $color;
        $this->model = $model;
    }
    public function message() {
        return "My car is a " . $this->color . " " . $this->model . "!";
    }
}
```

```
$myCar = new Car("red", "Volvo");
var_dump($myCar);
```

---

The PHP `explode()` function splits a string into an array.

```
$x = "Hello World!";  
$y = explode(" ", $x);
```

```
//Use the print_r() function to display the result:  
print_r($y);
```

---

Start the slice at index 6 and end the slice 5 positions later:

```
$x = "Hello World!";  
echo substr($x, 6, 5);
```

---

## Negative Length

Use negative *length* to specify how many characters to omit, starting from the end of the string:

### Example

From the string "Hi, how are you?", get the characters starting from index 5, and continue until you reach the 3. character from the end (index -3).

Should end up with "ow are y":

```
$x = "Hi, how are you?";  
echo substr($x, 5, -3);
```

---

## API USING PHP

### Fetch data from database using api in php

```
<?php
$con=mysqli_connect("localhost","root","","API_DATA");
$response=array();
if($con)
{
//echo "DB Connected";
$sql= "select * from data";
$result = mysqli_query($con,$sql);
If($result)
{
$i=0;
while($row= mysqli_fetch_assoc($result))
{
$response[$i]['id']=$row['id'];
$response[$i]['name']=$row['name'];
$response[$i]['age']=$row['age'];
$response[$i]['email']=$row['email'];
$i++;
}
echo json_encode($response,JSON_PRETTY_PRINT);
}
Else
{
Echo "database connection failed"
}
?>
```

### REST API USING PHP

API clients -> curl, httpie, postman  
Used httpie on the commandline

Send request uri element from the server, to see the response from the page, take the command line using httpie and make a get request to that page ie; \$http get <http://localhost/index.php>

```
$("#loginbtn").click(function(event){  
    event.preventDefault();
```

```
    var username = $("#username").val();  
    var password = $("#password").val();
```

```
    $.ajax({  
        url: 'verify_user.php', // URL of the server-side script  
        type: 'POST',  
        dataType: 'json',  
        data: {  
            username: username,  
            password: password  
        },  
        success: function(response) {  
            // Handle the response from the server  
            if (response.status === 'success') {  
                alert(response.message);  
                // Redirect to the desired page after  
                successful login  
                window.location.href =  
                "homepage.html";  
            }  
            else {  
                alert(response.message);  
            }  
        },  
        error: function(xhr, status, error) {  
            // Handle any errors  
            console.error(error);  
            alert('An error occurred while logging in.');
```

Login.php

```
<?php
session_start();
?>
<!DOCTYPE html>
<html>
    <head>
        <title>Travel Safe Management System</title>
        <link rel="stylesheet" type="text/css" href="css/
login.css"> <!--link that have the css file-->
        <style>
            body#loginbody{
                background: url('images/bgimg.jpeg');
                background-repeat: no-repeat;
                background-size: 100% 100%;
                height: 500px;
            }

div.loginHeader{
    text-align: center;
}

div.loginbody form{
    margin: 0 auto;
    width: 200px;
}
div.loginbuttoncontainer{
    margin-top: 20px;
}

div.header{
    width: 100%;
    background: burlywood;
    padding: 20px 0px;
    text-align: right;
}
div.header a{
    font-size: 20px;
    color: #040000;
    border: 2px solid #000000;
    padding: 5px 10px;
}

div.banner{
    background: url('images/homebg.avif');
    background-repeat: no-repeat;
    background-size: 100% 100%;
```

```

        height: 600px;
    }
    div.homepagecontainer{
        text-align: center;
        width: 100%;
        max-width: 900px;
        margin: 0 auto;
    }

```

```

div.homepagefeatures{
    display: flex;
    flex-direction: row;
}

```

```

div.homepagenotified{
    display: flex;
    flex-direction: row;
}

```

```

</style>

```

```

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/
jquery.min.js"></script>

```

```

<!-- <script src="my_jquery_functions.js"></script> jQuery
functions can be in a seperate js file which is added here-->

```

```

<script>
$(document).ready(function(){
    $("#back").click(function(event){
        event.preventDefault();
        window.location.href = "openpage.php";
    });
}

```

```

});

```

```

</script>

```

```

</head>
<body id="loginbody">
    <div class="login_header">
        <button id="back">Back</button>
    </div>
    <div class="container">
        <div class="loginHeader">
            <h1>TSMS</h1>
            <h3>Travel Safe Management System</h3>
        </div>
        <h2>Login</h2>
    </div>
    <?php
    if (isset($_SESSION['error'])) {

```

```

        echo "<p style='color: red;'" . $_SESSION['error'] . "</p>";
        unset($_SESSION['error']);
    }
    ?>

    <div class="loginbody">
        <form action="verify_user.php" method="post">
            <div>
                <label for="">Username</label>
                <input type="text" id="username"
name="username" />
            </div>
            <div>
                <label for="">Password</label>
                <input type="password" id="password"
name="password" />
            </div>
            <div class="loginbuttoncontainer">
                <button type="submit" name="logsubmit"
id="loginbtn">Login</button>
            </div>
        </form>
    </div>
</div>

</body>

</html>

```

Home page.php

```

<!DOCTYPE html>
<html>
    <head>
        <title>Travel Safe Home Page</title>
        <link rel="stylesheet" type="text/css" href="css/
login.css"> <!--link that have the css file-->
        <script src="https://kit.fontawesome.com/e88bbb46b5.js"
crossorigin="anonymous"></script>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/
dist/css/bootstrap.min.css" rel="stylesheet">
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/
dist/js/bootstrap.bundle.min.js"></script>
        <style>

```



```
        body#loginbody{
            background: url('images/bgimg.jpeg');
            background-repeat: no-repeat;
            background-size: 100% 100%;
            height: 500px;
        }
```

```
div.loginHeader{
    text-align: center;
}
```

```
div.loginbody form{
    margin: 0 auto;
    width: 200px;
}
```

```
div.loginbuttoncontainer{
    margin-top: 20px;
}
```

```
div.header{
    width: 100%;
    background: burlywood;
    padding: 20px 0px;
    text-align: right;
}
```

```
div.header a{
    font-size: 20px;
    color: #040000;
    border: 2px solid #000000;
    padding: 5px 10px;
}
```

```
.btn-group {
    float: left; /* Float button group to the left */
    border: 1px solid black;
}
```

```
.menu {
    float: left; /* Float button group to the left */
    border: 1px solid black;
}
```

```
div.banner{
  background: url('images/homebg.avif');
  background-repeat: no-repeat;
  background-size: 100% 100%;
  height: 600px;
}
```

```
div.homepagecontainer{
  text-align: center;
  width: 100%;
  max-width: 900px;
  margin: 0 auto;
}
```

```
div.homepagefeatures{
  display: flex;
  flex-direction: row;
}
```

```
div.homepagenotified{
  display: flex;
  flex-direction: row;
}
```

```
.dropdown-submenu {
  position: relative;
}
```

```
.dropdown-submenu > .dropdown-menu {
  top: 0;
  left: 100%;
  margin-top: -6px;
  margin-left: -1px;
}
```

```
.dropdown-submenu:hover > .dropdown-menu {
  display: block;
}
```

```
.dropdown-submenu:hover > a:after {
  border-left-color: #fff;
}
```

```
.dropdown-submenu.pull-left {
  float: none;
}
```

```
.dropdown-submenu.pull-left > .dropdown-menu {
  left: -100%;
  margin-left: 10px;
}
```

```
    }  
  </style>  
</head>
```

```
<body>  
  <div class="header">  
    <a href="login.php">Login</a>  
    <div class="btn-group">  
      <button type="button" class="btn btn-dark " data-bs-  
toggle="dropdown">  
        <i class="fa-solid fa-bars"></i>  
      </button>  
      <ul class="dropdown-menu">  
        <li class="dropdown-submenu">  
          <a class="dropdown-item dropdown-toggle"  
href="#">Settings</a>  
          <ul class="dropdown-menu">  
            <li><a class="dropdown-item" href="#">Add  
Profile</a></li>  
            <li><a class="dropdown-item" href="#">Reading  
Status</a></li>  
          </ul>  
        </li>  
        <li><a class="dropdown-item" href="#">Profile</a></li>  
        <li><a class="dropdown-item" href="#">Read</a></li>  
        <li class="dropdown-submenu">  
          <a class="dropdown-item dropdown-toggle" href="#">My  
Library</a>  
          <ul class="dropdown-menu">  
            <li><a class="dropdown-item" id="add_book"  
href="#">Add Book</a></li>  
            <li><a class="dropdown-item" href="#">Delete  
Book</a></li>  
          </ul>  
        </li>  
      </ul>  
    </div>
```

```
<!-- Hidden form for file upload -->  
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></  
script>  
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/  
2.11.6/umd/popper.min.js"></script>  
<script src="https://stackpath.bootstrapcdn.com/bootstrap/5.1.3/  
js/bootstrap.min.js"></script>
```

```
<div id="uploadForm" style="display:none; margin-top:20px;">  
  <form id="fileUploadForm" action="upload.php" method="post"  
enctype="multipart/form-data">  
    <div class="mb-3">
```

```

        <label for="fileInput" class="form-label">Upload PDF</
label>
        <input class="form-control" type="file" id="fileInput"
name="file" accept="application/pdf">
    </div>
    <button type="submit" class="btn btn-primary">Upload</
button>
</form>
</div>

```

```

<script>
    $(document).ready(function() {
        $("#add_book").on("click", function(e) {
            e.preventDefault();
            $("#uploadForm").toggle();
        });
    });
</script>

<div class="banner">
    <div class="homepagecontainer">
        <div class="bannerheader">
            <h1>BSMS</h1>
            <p><h2>Book Shelf Management System</h2></p>
        </div>
        <p class="bannertagline">
            Read Books Online and live your world of Joy..
        </p>
        <div class="bannericons">
            <a href=""><i class="fa fa-android"></i></a>
            <a href=""><i class="fa-brands fa-apple"></i></
a>
            <a href=""><i class="fa-brands fa-windows"></
i></a>
        </div>
    </div>
</div>

<div class="homepagecontainer">
    <div class="homepagefeatures">
        <div class="homepagefeature">
            <span><i class="fa-solid fa-gear"></i></span>
            <h3>Editable theme</h3>
            <p>bdefjnejr g t j g n j r t n g m r n f j e r u t h j n f j r n f b d e f j n e j r
g t j g n j r t n g m r n f j e r u t h j n f j r n f b d e f j n e j r g t j g n j r t
n g m r n f j e r u t h j n f j r n f
            </div>
            <div class="homepagefeature">
                <span><i class="fa-solid fa-star"></i></span>

```

```

        <h3>Flat Design</h3>
        <p>blah blah blah blah blahb
            defjnejrgtjgnjrtnngmrnfjeruthjn
            fjrnfbdefjnejrgtjgnjrtnngmrnfjeru
            thjnfjrnf</p>
    </div>
    <div class="homepagefeature">
        <span><i class="fa-solid fa-globe"></i></span>
        <h3>Reach your Audience</h3>
        <p>lablalajebrij hedjenkdnbdefjnejr
            rgtjgnjrtnngmrnfjeruthjnfjrnfbdefjnejr
            gtjgnjrtnngmrnfjeruthjnfjrnfbahbsuwhe
            nfbdefjnejrgtjgnjrtnngmrnfjeruthjnfjrnfb</p>
    </div>
</div>
<div class="homepagenotified">
    <div class="video">
        <iframe src="https://www.youtube.com/embed/9wpEnM5JR3I"
width="300" height="300" frameborder="0" allowfullscreen></iframe>
    </div>
</div>
</div>
</div>
</body>
</html>

```

Upload.php

```

<?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_FILES['file']) && $_FILES['file']['error'] ==
UPLOAD_ERR_OK) {
        $uploadDir = 'uploads/';
        $uploadFile = $uploadDir . basename($_FILES['file']
['name']);

        // Check if the file is a PDF
        $fileType = mime_content_type($_FILES['file']
['tmp_name']);
        if ($fileType === 'application/pdf') {
            if (move_uploaded_file($_FILES['file']['tmp_name'],
$uploadFile)) {
                echo "File successfully uploaded.";
            } else {
                echo "Error uploading file.";
            }
        } else {
            echo "Please upload a valid PDF file.";
        }
    }
}

```

```
}  
    } else {  
        echo "No file uploaded or upload error.";  
    }  
} else {  
    echo "Invalid request.";  
}  
?>
```