PHP (basic) (server side script)

* PHP script runs on app server

```
S/w ─── web server (IIS, Apache, ---)
     ── PHP engine (ror. php. net/ - - - - )
      ╲ Text editor
       ╲ web browser  ⎫ IDE (PHP coder, ---
        ╲ DBMS        ⎭
```
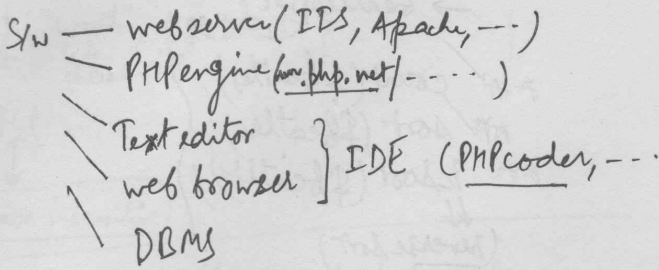
```
<HTML>
<Head>
<Title> My first PHP page </title>
</Head>
<body>
   <?
      echo "Hello world";         Helloworld.php
   ?>
</body>
</html>
```

```
<?                          <?
$name = "Joseph";           $name = "Peter";
echo $name;                 $age = 32;
?> $num = 13;               echo "My name is ". $name. "and I am". $age. "years old";
                            echo "<BR>";            concatenation operator
                            ?>
```

```
                                                    && || != !   if...else
<?                                                              if...elseif...else
$num = 7;                                                       switch ( ){
if ($num > 5) {echo "num is more than 5";} else {echo "not more than 5";}    case...:
?>                                                                      }

echo ($num == 7) ? "exactly 7" : "not 7";

       ?            :
       ?            : (     )?        :        ;    →(nested if )
```

```
for( ; ; ){ ;}      while ( ) {  ;}      do{   } while ( )
```

```php
<?
$beatles = array("Lenon", "McCartney", "Harrison", "Starr");
echo $beatle[0];
?>
```

→ beatles[$i]

** count($beatles);
** sort($beatles);
** rsort($beatles);
   (reverse sort)

Associated Arrays

```php
<?
$greetings = array("English" => "Hi there!", "French" => "Salut!", "Spanish" => "Digame!");
echo $greetings["French"];
?>
```

```php
<?
$greetings = array("English" => "Hi there!", "French" => "Salut!", "Spanish" => "Digame!");
$currentgreetings = each($greetings);
echo $currentgreeting["Key"]."<BR>";
echo $currentgreetings["value"];
?>
```

```
while ( - - - = each( - - ) ) {
    .
}
while ( list ($language, $greeting)= each (gretgs)
    { - - - . }
```

Adding elements:

```php
$greetings["Bengali"] = "Ki khobor?";
$numbers[3] = "four";
$greetings[3] = "Ki khobor?";
```

Multi dimensional Array:

```php
$book = array( array( - - -, - - -, - - -),
               array( - - -, - - -, - - -));

echo $book[0][1];
```

```php
$fruit = array("apple", "banana");
$list = implode("and", $fruit);
$words = explode(" ", $fruit);
```

```php
strlen($sentence);
substr($sentence, 56);
str_replace(oldvalue, newvalue, $sentence);
```

Regular expressions :- ① POSIX
           ② PCRE (perl compatible reg. expr.)

```
<?
$sentence = "This is sent. ---";
if (ereg ("word", $sentence)) { - - - . };
        to be
        checked
eregi ( - - - - - ) { - - - - };
  ↓
(case insensitive)
```

$regexp = "thanks| thank you| ta| cheers";

           (or) in reg. expr.

wildcard →   .   for any character   [ex: . . bp ---
                      one
         +   " one + more "   .+ bp

Right column:
```
("^word", - . )
("word$", - - - )
("z{3,5}", - - . )
("mnw(he){2,5}", --.)
  - - . *
  - - . +
(
```

---

mysql database connection :- ✓

```
<?
$db = mysql_connect ("localhost");
mysql_select_db ("tablename", $db);
$query = "SELECT * FROM shops";
$result = mysql_query ($query);
$table = mysql_field_table ($result, 0);
echo $table ;
?>

while ( $Record = mysql_fetch_assoc ($result)) {
    while (list ($fieldname, $fieldvalue) = each ($record)) {
        echo $fieldname. ": ". fieldvalue. "<BR>";
    }
    echo "<BR>";
}
?>
```

Right block:
```
                                    mysql_fetch_assoc( )
while ($record = mysql_fetch_row ($result)) {
    for ($i=0; $i<count ($record); $i++) {
        echo $record[$i]. "<BR>";
    }
    echo "<BR>";
}
```

interacting with user:

```html
<html>
    -  .Vinyl dealers: search
<body>
     Search for a shop
<form action="resultsbyname.php" method="Post">
Please enter the name, or part of the name, of the shop you are seeking:

    <input name="name"  type=text >
    <input type= submit  value="search">
</form>
</body>
</html>
```                                                           . html

(resultsbyname.php)
```php
<html>
   -  .Vinyl dealers: Search Results

<body> search results
<?     $link = "<A HREF='searchbyname.html'> click here to go back. </A>";    $name=trim($name);
    $db = mysql_connect ("localhost");                                  if (! $name) {echo "No term search";
    mysql_select_db ("vinyldealers", $db);                                     echo $link; exit; }
    $query = "SELECT shop.name, shop.phone, shop.email, shop.website
              FROM  shops WHERE name LIKE '%" . $name . "%'";
$result = mysql_query ($query); if(mysql_num_rows($result)==0){ echo "Sorry, no result"; echo $link;exit;}
while ($record = mysql_fetch_assoc ($result)){
    while ( list($fieldname, $fieldvalue)= each ($record)){
        echo $fieldname.": <BR>". $fieldvalue."</B><BR>";
    }
    echo "<BR>"
}
?>  echo $link;
```

feedback.html

```html
<html>

<body> feedback
<form action = "send_feedback.php" method = "post">
your name:
<input type = text name = "user" maxlength = 40 size = 40>
<br>
your email:
<input type = text name = "email" maxlength = 40 size = 40>
Can we keep you updated?                checked > yes
<input name = "spam" type = Radio value = "1">
<     ''              ''      = "0"> No
<input textarea = Col = 60 Rows = 10   name = "comments"></ text
<input type = Submit  value = "submit">

</form>
</body>
</html>
```

send_feedback.php

```php
<?  → set_error_handler(fail);  include("validation.inc");
    if (!$user || !$email || !$comments) { trigger_error("Please fill in all fields", E_USER_ERROR); }
    if (!isValidEmail($email)) { trigger_error("Please, enter a valid address.", E_USER_ERROR); }

whoops! Please, fill all
<A href = "feedback.html"> click here - - - ; </A>

    ?. exit;
}
$user = addslashes($user);
{. . . . . .
{. . . . . .
$db = mysql_connect("localhost");
mysql_select_db"".
                                                spam,
$addfeedback = "insert into feedback (user, email, comments) {
                    values ('$user', - - - . . );

$result =
function fail($errno, $msg) { echo "whoops" . $msg . "<br>"; if ($errno == E_USER_ERROR || $errno == E_ERROR) {
        echo "<A href = "feedback.html">Click here</A>"
            exit;
    }
}
            thanks.
</body>
```

Uploading files :-

(submit_file.html)

```html
<html> - -
<body> - -
<form Enctype = "multipart/form-date" Action = "upload_file.php" method = "Post">
<input type="hidden" name="Max_File_Size" Value="20000">
Filename :
<Input name ="userfile" type="file">
<BR>
<input type="submit" value ="send">
</form>
</body>
</html>
```

(upload_file.php)

```php
<? if ($userfile =="none") {
      echo "No file specified";
         exit;
    }
    if (move_uploaded_file ($userfile, "\\uploads\\". $userfile_name)) {
              echo " Your file has been uploaded.";
    } else {
            echo "couldnot upload file";
    }
?>
```

Sessions and users :

```
                                    ┌─> ▱ DB
                     registration form ─────────────┐
              ┌───> (register.php)                  ▼               ┌──> log out
login SYSTEM: ┆         │                                          │   logout.php
              ┆    login form ──────> main page ──────> 
 site enterance ─────> (login.php)     (main.php)
 (enterance.html)                                                        │
                                                              ┌─────────┘
                                                              ▼
```

```php
<? session_start ( ) ?>
<html>
<head>
<title> Login </title>
</head>
<body>
<h2> Login </h2>
<? if ($user && $pass) {
      $link = "<A href='main.php'> click </A>";
      if ($logged_in_user == $user) {
              echo $user, " you are already logged in.";
              echo $link;
              exit; }
      $db=mysql_connect ("localhost"); mysql_select_db ("userlist", $db); - - -- ..
?>
<Form method = Post Action = "login.php">
<input name ="user" - = - ..
- -  ..
- -
</html>
```

```php
<? session_start ( ) ?>
<? if ($logged_in_user)
    {- - -
    ?> - ..
```

```php
<? session_start () ?>
   if ($logged_in_user) {
       session_unregister ("logged_in_user");
       
       } else { - "-."} ;
```

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```php
class Cat {
    function Cat ($colour) {      // constructor
        $this -> colour = $colour;
    }
    var $legs = 4;
    function report () {
        return "this". $this -> colour." ".get_class ($this)." has ". $this -> legs." legs. <br>";
    }
}
$tiddles = new Cat("grey");
$tiddles -> legs --;
$moggy = new Cat("black");
echo $tiddles -> report();
echo $moggy -> report();
?>
```