**Important functions in PHP**

Note: PHP VAR works In Double Quotes.

Short Echo Tag in PHP: <?=value ?>

Function commonly used in string:

* Var\_dump(); //function returns the data type and value.
* Strlen(string);//Return String Length.
* Str\_word\_count(string);//number of word’s in string.
* strrev(string)//reverse of string.
* str\_replace(txt\_to\_replace, new\_word, user\_text);
* strops(user\_text, word\_to\_see);//string position.
* Var\_dump(is\_int());//check the number is integer.

Function commonly used in array:

* Array ();//The Store of variable.
* count(array);//Count values of indexed array.
* Sort(array);//sort arrays ascending order.
* rsort(array);//sort array descending order.
* asord(array);// sort array ascending value.
* arsort(array);//sort array descending value.
* ksort(array);//sort array ascending to key.
* krsort(array);//sort array descending to key.
* **current();//** See the First value of array**;**
* **End();//** See the last value of array;
* **In\_array(‘search\_value’, ‘array\_name’); //** Search in array;
* **Array\_pop(‘array’);** Delete The last value of array;
* **Array\_push(‘array’, ‘value\_to \_add’);//** Add new value orarray in last or parent array;
* **Array\_shift(‘’); //** Remove first value of array;
* **Array\_unshift(‘array\_name’, ‘value’);//** Add value as first value;
* **Array\_reverse(‘array’);//**get the array reverse order;
* **Array\_slice(‘array’, index no where to start, index no to stop); //** Slice array;
* **Array\_splice(‘array’, index no to change or remove, how many to remove, ‘values’**);// Replace or Remove Array values;
* **Array\_unique(array);//**
* Explode(‘separator’, string)//convert String to array.
* Implode(‘separator’, string)///convert array to string,

Function commonly used in form\_validaion:

* htmlspecialchars();//converts script code to normal text.
* trim();//Remove extra space, tab, newline from the user input data.
* stripslashes();//Remove backslashes (\) from the user input data.
* empty();//check if the function is empty.
* isset();//Check if the function is set or not.
* $\_SERVER[‘REQUEST\_METHOD’];//**Check the method of request**.
* $\_SERVER[‘PHP\_SELF’];//**Return the currently executing script**.
* header(‘location:file\_name.php’);//**File Transfer in PHP.**

PASSWORD Management: (Hashing Password)

**SET**

* + **password\_hash( $pass, PASSWARD\_DEFAULT);**
  + **World’s Most Secure Password.**
  + **Each time creates Unique One.**

**Check**

* + **Password\_verify(‘$var’, ‘$db\_pass’);**

DATA Pass By url (In Anchor Tag):

SET

* + **href= “abc.php?key1 = value1 & key2 = value2”;**

Get Data by Get Method

* + **$\_GET[‘key1’];**
  + **$\_GET[‘key2’];**

Function commonly used in Date:

* Date(format,timestamp);//Show the time and date.
* Date(“d” -Numaric date/ “D”-Three word Date).
* Date(“m”-Numeric Month/ “M”-Three Word Month).
* Date(“y”- Two Numeric Year/ “Y”- Four Numeric Year).
* Date(“l”- Day of the week/ “L”-Nothing).
* Date(“h”-Hour 12 format/ “H”- Hour 24 f).
* Date(“i”- Show the minute/ “I”- Nothing).
* Date(“s”-show Second/ “S”- Show ‘th’).
* Date(“a”- ante meridiem, post meridiem)
* **date\_default\_timezone\_set(‘asia/dhaka’)**;//Set current location time.
* **mktime(hour,minute,second,month,day,year);**//Set timestamp with number.
* **strtotime();**//English textual number of second since Jan 1 1970 GMT.
* **time();//**Return the current time as Unix timestamp.
* **ceil();//**Remove the values of after decimal point.
* **Floor();//**Also Remove values after decimal point.
* **Rend();//** Creates Random Numbers Uses in file upload.
* **round(float\_var, 2);//**2nd parameter is number you want after decimal.
* **Error\_reporting(0);//** Close all unexpected errors.

Function commonly used in File :

* require ‘filename.php’;//add file if not found create fatal error.
* require\_once();//Function will work once time only.
* Include ‘filename.php’;//add file if not found produce warning.
* Include\_once();//Function will work once time only.
* readfile(‘file.name’); //Open up a file and reads it’s content.
* fopen(‘filename.php’,’mode’); //Open the File.
* Fopen(‘filename.php’,’r’);//File open for read only.
* Fopen(‘filename.php’,’w’);//Open file for write only, create new if doesn’t exist, Erase previous content.
* Fopen(‘filename.php’,’a’);//Open file for write only, create new if doesn’t exist, the exciting data is preserved.
* Fopen(‘filename.php’,’x’);//create a new file for write only, return false if already exist.
* fread(var\_of\_fopen, filesize(‘filename.php’));//Read The file.
* Fwrite(var or ‘txt’);//Write to an open file.
* Fgets(varv);// Get the file by single line.
* Fgetc(var);//Get the file by single character.
* Feof(var);//End of file used in, while(!feof($myfile)).
* fclose(var); // Close the opened file.

Function commonly used in Letter Case:

* strtoupper();//String to uppercase.
* strtolower();//String to lower.
* ucfirst();//Sentence Case.
* ucwords();//Capitalize each word.

Function commonly used in Upload a file:

* PATHINFO($fname, PATHINFO\_EXTENSION);//Get The file Extension.
* MOVE\_UPLOADED\_FILE($tmp\_name,’uploadfile/’.$fname);//Upload File.
* **move­\_uploaded\_file($tmp\_name,’upload/’.date(‘h.i.s’).$fname);//**Avoid overwrite.
* var\_dump();// Show Human readable information about a string.
* print\_r(var);//Print Human readable information about a string.

**##CHECK FILES STRACTURE:**

if(isset($\_POST['upload'])){

echo "<pre>";

print\_r($\_FILES);

print\_r($\_POST);

echo "</pre>";}

**## GET FILES DATA:**

$i\_name = $\_FILES['myimg']['name'];

$i\_type = $\_FILES['myimg']['type'];

$i\_tmp = $\_FILES['myimg']['tmp\_name'];

$i\_error = $\_FILES['myimg']['error'];

$i\_size = $\_FILES['myimg']['size'];

**$i\_ext = strtolower(pathinfo($i\_name, PATHINFO\_EXTENSION));**

**$i\_ext = end(explode(‘ . ’, $i\_name));// Get Extension**

**$u\_picture = md5(time().$i\_name). ‘.’ . $i\_ext; pd**

* Print\_r($\_FILES);//Information of uploaded file {name,type,tmp\_name,error,size}.
* floor($file\_size/1000). “kb”;// convert into kb and remove decimal number.
* If(in\_array($ext, ['jpg','png','gif']==true))//check the file format is supported.
* $\_FILES[‘filename’][‘name’];//Get the data from uploaded file.

**Function commonly used in Cookie** :

* **setcookie(name,value,expire,path,domain,secure,httponly)**//must before html tag.
* **Setcookie(‘shoping’,$\_POST[‘user\_choice’],time()+120);**//set cookie for 2 min.
* **If(count($\_COOKIE)>0){}**;//check cookie by count function.
* **Setcookie**(**‘shoping’,$\_POST[‘user\_choice]**,**time-120**);//Delete cookie by (time()-).
* **if (isset($\_COOKIE['c\_name'])){}**;//check the cookie if set.

Function commonly used in SESSION:

* **session\_start();//**Start Session, before html tag, access to all page with this func.
* **$\_SESSION[‘var\_name’] = ‘var\_value’;//**set\_session value.
* **$\_SESSION['user'] = $\_POST['username'];//**Set form value to session var.
* **session\_unset();**// if you use session var after this func show notice undefine index.
* **session\_destroy()**;//Destroy the session / or log out from any form.

**Function commonly used in Filter / Filter Advance:**

* **SYNTAX** : filter\_var(var, filter\_name, options);
* filter\_var($var, FILTER\_SANITIZE\_STRING)//Remove all illegal char from this string.
* filter\_var($var, FILTER\_VALIDATE\_URL)//Check if this URL is valid or not.
* if (filter\_var($number, FILTER\_VALIDATE\_INT, array('options'=>array('min\_range'=>

$low, 'max\_range'=>$high)))) //Check the array range.

Loops in PHP

* **While:** var, while(condition){code; increment};
* **Do While:** var, do{code; increment}while(condition);//first execute then check.
* **For:** for(var; condition; increment) {code};
* **Foreach:** foreach(array as key => value) {code};

**Alternative Syntax:**

* **<?php while(condition):?>** statement **<?php endwhile;?>**
* **Opening brace is:** (:colon) **closing brace** (endwhile;).
* **If, While, For, Froeach**// Run on such loop.

MySQL DATABASE

**MySQLi\_Object\_Oriented:**

* **Connection:** $con=new msqli(host,username,pass,db);
* **Check:** if($con->connect\_error){}
* **Execute Query**: $con->query($sql);
* **Get Table Info:** $var=$con->query(‘SELECT \* FROM table’);//Table information.
* **Show DATA Named Field:** $query ->fetch\_assoc();// table row as field name.
* **While ($row= $query->fetch\_assoc**(): run loop **endwhile;**/can do such loop in table.
* **Close:** $con->close();

**MYSQL DATABASE**

**Three Things of working with MYSQL**

* MySQLi\_object\_oriented.
* MySQLi\_Produceral.
* PDO(PHP Data Object).

**Create DB & Delete:**

* Create DB: DB> type: db\_name > create// will be created.
* Delete DB: select db> operations> drop db // will be dropped.
* **Create Table in DATABASE**:

CREATE TABLE test(

id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

fname VARCHAR(255),

lname VARCHAR(255),

gender ENUM('m','f','o'),

email VARCHAR(255),

pass VARCHAR(255),

number BIGINT(10));

* **MySQL DATATYPE**:
  + **Integer(INT)**:
    - **SMALLINT**//Declare small integer type data.
    - **INT**//Declare Medium max 11 integer type data.
    - **BIGINT**//Declare Big integer type data.
  + **Decimal:**
    - **FLOAT(M,D)**//First one is total data size & 2nd data after decimal.
    - **DOUBLE(M,D)**//First one is total data size & 2nd data after decimal.
    - **DICIMAL(M,D)**//First one is total data size & 2nd data after decimal.
  + **Character**:
    - **CHAR()**// Medium size(Take full data storage on memory).
    - **VARCHAR(MAX-255)**// Medium (Take used data storage on memory).
    - **TEXT(BIG SIZE)**// Large size text data
  + **DATE YEAR TIME**:
    - **DATE(YYYY-MM-DD)**
    - **YEAR(YYYY)**
    - **TIME(HH:MM:SS)**
* **DATA insert into TABLE**:

**INSERT INTO** customers\_data(FastName, LastName, Email, Address, ZipCode) **VALUES** (‘Nazmul’, ‘Huda’, ‘mh@gmail’, ‘fulbaria’, ‘2216’);

(‘Nuhidul’, ‘Islam’, ‘nu@gmail’, ‘fulbaria’, ‘2230’);

* **UPDATE Table DATA**:

**UPDATE** customer\_data

**SET** FirstName = ‘Nayem’, ‘LastName = ‘Shahrier’, Address = ‘Post Office’

**WHERE** id = 4;

* **DELETE Table Row**:

**DELETE FROM** customer\_data

**WHERE** id= ‘5’; // then execute row will be deleted.

* **ADD, MODIFY & DROP COLUMN**:
* **ADD COLUMN**:

**ALTER TABLE** customers\_data

**ADD** website VARCHAR(255);//more then 1 is not supported.

* **DROP COLUMN:**

**ALTER TABLE** Customers\_data

**DROP** website;

* **MODIFY COLUMN DATATYPE**:

**ALTER TABLE** customers\_data

**MODIFY** website INT;

* **SELECT DATA From DB**:

SELECT \* FROM family\_members;

SELECT \* FROM family\_members **LIMIT** 2;

SELECT \* FROM family\_members **LIMIT** 2, 3;

SELECT \* FROM family\_members **WHERE** **id**= ‘1’;

SELECT \* FROM table **WHERE** name= ‘value’ **AND** email = ‘value’;// Both Required.

SELECT \* FROM table **WHERE** name= ‘value’ **OR** email = ‘value’;// either or.

SELECT \* FROM ren **WHERE** rank **IN**('EN-ll', 'EN-l').// Find all data matched value.

SELECT \* FROM table **WHERE** **NOT** column= ‘value’;// Allow all except such value.

SELECT \* FROM table **WHERE** column **IS NULL**;// Allow all Null value of column.

SELECT \* FROM table **WHERE** column **IS NOT NULL**;// Allow all value except NULL.

SELECT **Name, Profession FROM** family\_members; // call named col.

SELECT \* FROM family\_members **ORDER BY** name;

SELECT \* FROM family\_members **ORDER BY** name **DESC** or **ASC**;

SELECT **DISTINCT** Name **FROM** family\_members; // similer value one time.

* **SET A RANGE With BETWEEN OPERATOR**:

SELECT \* FROM customers\_data

**WHERE** Age

**BETWEEN** 22 **AND** 24;

* **MAX(), MIN(), SUM(), AVG() & COUNT() Functions**:

$var= **SELECT MAX**(**int**) as **demo FROM** table;

//$f\_var= **fetch\_assoc**($var);

echo **$f\_var[‘demo’]**;

**NOTE: First Put your targeted data in a name than call data by that name.**

**NOTE: Use MIN to Get minimum Value from data.**

**NOTE: USE COUNT to get total row number.**

**NOTE: USE SUM to get total col value.**

**NOTE: USE AVG to get avg value of total column.**

* **LIKE, % , \_ OPERATOR**:

SELECT \* FROM table **WHERE** name **LIKE** ‘**%a’**;//Such name end with a.

SELECT \* FROM table **WHERE** name **LIKE** ‘**a%**’;//Such name start with a.

SELECT \* FROM table **WHERE** name **LIKE** ‘**%a%’**//; Such names a exist.

SELECT \* FROM table **WHERE** name **LIKE** ‘**\_a%’**//; KW start after first char.

* **Two or More TABLE data** :

**SELECT** **student.ROLL**, GPA, DEPT, NAME, GENDER, AGE

**FROM** student, result **WHERE student.ROLL**= **result.ROLL**;

* + - **student.ROLL// Fully Qualified name, col with table.**
    - **You can use table as sort name to make your code shorter.**

**SELECT** **student.ROLL**, **student.NAME**, **result.GPA**, **result.DEPT**, **student.GENDER**

**FROM** student, result

**WHERE** student.ROLL= result.ROLL

* **Types of JOIN:**
* **JOIN/ INNER JOIN// Return Condition Match Rows.**
* **LEFT JOIN** **// Return all from left Match from right Rows.**
* **RIGHT JOIN// Return all from right Match from left Rows.**
* **FULL JOIN**
* **JOIN/ INNER JOIN/ LEFT JOIN/ RIGHT JOIN**:

**SELECT** **student.ROLL**, **student.NAME**, **result.GPA**, **result.DEPT**, **student.GENDER**

**FROM** student **INNER JOIN** result

**ON** student.ROLL= result.ROLL

* **MULTIPLE INNER JOIN**:

**SELECT** **\* FROM ((**student **INNER JOIN** result

**ON** student.ROLL= result.ROLL) **INNER JOIN** exam

**ON** student.ROLL = exam.ROLL);

* **UNION/ UNION ALL**: //**UNION REMOVES DUPLICATE VALUES BUT UNION ALL DON’T;**

**SELECT** **col 1, col 2, col3**

**FROM table 1**

**UNION/ UNION ALL**

**SELECT** **col 1, col 2, col3**

**FROM table 2;**

**………………. Database Username & Password ………………………**

**Go-> PHP my admin->**

**select Database ->**

**Privilege ->**

**Create user & Password -> ( By default root & pass Blank).**

**Create Custom username & pass->**

**Check user Privilege.**