# Introduction to function

# **Objective**

#### In this chapter learner able to understand:

- Function
- Passing Parameters to functions
- Return value through function
- Date and Time with PHP
- PHP "include" and "require"

#### **Function in PHP**

Function can be defined as small peace of code within your program which performs a predefined task within program.

Function can be understood as smallest execution unit of your program.

Type of the functions:

1.Built-In Functions: These are the function which are provided to us by language itself we just use these function within our program.

array() , strstr() , include() , require() etc.

2. User-Defined Functions: These are the function which definition is defined by the user itself according to their need.

# **Creating Function**

#### Syntax:

```
function functionName()
{
  code to be executed;
}
```

#### Rule:

Give the function a name that reflects what the function does. The function name can start with a letter or underscore (not a number)

# **User-Defined Function Type**

- 1-Normal function
- 2-function with return value
- 3-function with parameter
- 4-function with parameter and return value
- 5-function with reference parameter
- 6-function with return multiple value
- 7-Conditional functions
- 8-function with default parameter
- 9-Variable Function

# **Functions - Adding parameters**

A parameter is just like a variable.

Parameters are specified after the function name, inside the parentheses.

Syntax:

function functionname(parameter1, parameter1.....)

//code

//code

### **Example**

```
<?php
   function writeName($fname)
   {
      echo $fname." Verma.<br />";
   }
   echo "My name is ";
   writeName("AAAA");
   echo "My sister's name is ";
   writeName("EEEE");
   echo "My brother's name is ";
   writeName("DDDD");
?>
```

### **Functions - Return values**

To let a function return a value, use the return statement.

```
<?php
function add($x,$y)
{
$total=$x+$y;
return $total;
}
echo "1 + 16 = " . add(1,16);
?>
```

### **Returning Values By Reference**

PHP also allows you to return variables by reference using & symbol.

# Function arguments by reference

```
<?php
   function add_some_extra(&$string)
   {
        $string .= "and something extra.";
   }
   $str = "This is a string, ";
   add_some_extra($str);
   echo $str;
   ?>
```

#### **Conditional functions**

When a function is defined in a conditional manner such as the two examples shown. Its definition must be processed prior to being called.

```
Example :-
<?php
$maketest = true;
show();
test();
        //Fatal Error function not define
if ($maketest)
     function test()
        echo "I don't exist until program execution reaches me.<br/>
";
test();
function show()
        echo "I exist immediately upon program start.<br/><br/>; ?>
```

# **Function default argument**

```
<?php
   function printname($name = "PHP")
   {
      return "My name is $name.<br>";
   }
   echo printname();
   echo printname(null);
   echo printname("Rahul");
?>
```

# Incorrect usage of default arguments

```
<?php
   function printname($sirname = "PHP",$name)
   {
      return "My name is $name $sirname<br>";
   }
   echo printname("Anuj");
?>
```

# Correct usage of default arguments

```
<?php
   function printname($name,$sirname = "PHP")
   {
      return "My name is $name $sirname<br>";
   }
   echo printname("Web");
?>
```

# Returning an array to get multiple values

```
<?php
   function small_numbers()
   {
      return array (0, 1, 2);
   }
   list ($first, $second, $third) = small_numbers();
   echo $second;
      $arr=small_numbers();
      print_r($arr);
?>
```

#### Variable functions

```
PHP supports the concept of variable functions.
Example:-
<?php
function first() { echo "In first<br/>'; }
function secondfun($arg = 'second')
   echo "In second fun() argument was $arg.<br/>'; }
function thirdfun($string)
   echo $string; }
    $myfun = first;
    $myfun();
    $myfun = "secondfun";
    $myfun();
    $myfun = 'thirdfun';
    $myfun('test');
?>
```

#### Some use full built-in functions

#### • include():

The include() statement includes and evaluates the specified file.

#### **Example**

```
vars.php

<p
```

#### require():

The require() statement includes and evaluates the specific file.

#### require() examples:

```
<?php
    require 'prepend.php';
    require $somefile;
    require ('somefile.txt');
?>
```

#### require\_once()

- The require\_once() statement includes and evaluates the specified file during the execution of the script.
- This is a behavior similar to the **require()** statement
- difference being that if the code from a file has already been included, it will not be included again.

#### **Example:**

```
<?php
    require_once "a.php";
    // this will include a.php
    require_once "A.php";
    // this will include a.php again on
    Windows! (PHP 4 only)
?>
```

 PHP has nice built in date function which allows you to display dates in human readable formats.

#### **Date Function Syntax: date(format, timestamp)**

- format Always required. Specify the format to display the in.
- timestamp Optional. Specify UNIX time stamp. If not passed, the current timestamp is used.
- Function Parameters
- d The day of the month, i.e. 01-31
- m Month representation in numbers, i.e. 01-12
- Y Year in four digits

#### **Date Function Formatting**

#### 1. DAYS

d - day of the month 2 digits (01-31)

j - day of the month (1-31)

D - 3 letter day (Mon - Sun)

I - full name of day (Monday - Sunday)

N - 1=Monday, 2=Tuesday, etc (1-7)

S - suffix for date (st, nd, rd)

w - 0=Sunday, 1=Monday (0-6)

z - day of the year (1=365)

#### 2. WEEK

W - week of the year (1-52)

#### **MONTH**

F - Full name of month (January - December)

m - 2 digit month number (01-12)

n - month number (1-12)

M - 3 letter month (Jan - Dec)

t - Days in the month (28-31)

#### **YEAR**

L - leap year (0 no, 1 yes)

Y - four digit year (Ex. 1979, 2006)

y - two digit year (Ex. 79, 06)

#### TIME

- a am or pm
- A AM or PM
- g 12 hour (1-12)
- G 24 hour c (0-23)
- h 2 digit 12 hour (01-12)
- H 2 digit 24 hour (00-23)
- i 2 digit minutes (00-59)
- s 2 digit seconds (00-59)

# **Chapter Summary**

in this chapter, you have learned about:

- A function is a self-contained block of statements that performs a specific task of some kind
- A function is capable to return some value to the calling statement.
- We can pass parameters to the function and return appropriate value to the calling statements.
- The getdate() function of PHP gives an array as output.
- PHP date() function makes a timestamp to a more readable date- time.
- include() function uses all the contents of one file into another file where it included.
- The functionality of require() function is similar to include() means it uses all the contents of one file into another file where it included.

# Thank you