

# Vinayakar Matric Hr.Sec.School

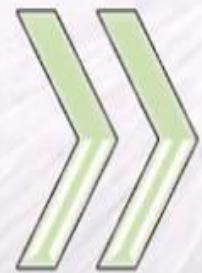
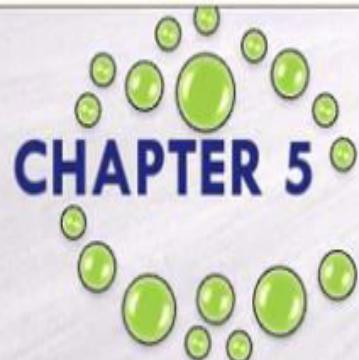
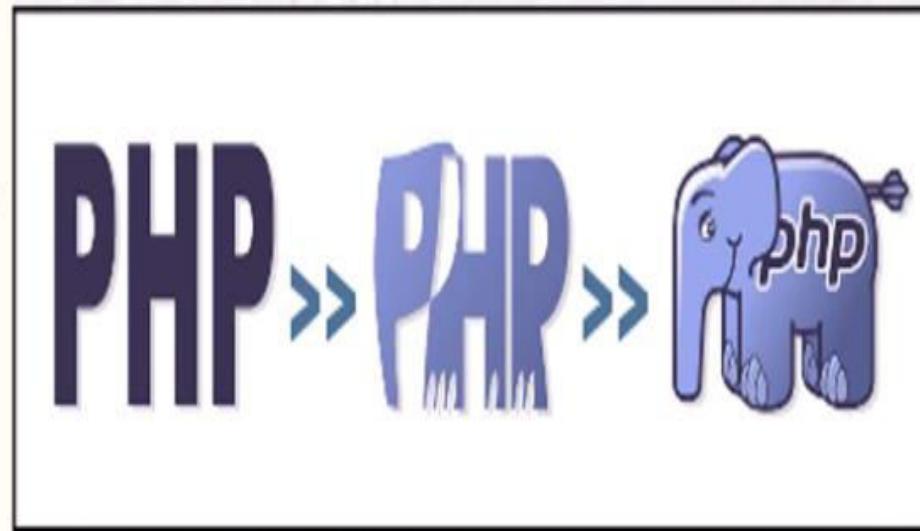
FUNCTIONS  
& ARRAY

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# 12<sup>TH</sup> COMPUTER APPLICATIONS



## PHP FUNCTION AND ARRAY

PART - 1

# PHP FUNCTION

- IN PHP SERVER SIDE SCRIPTING LANGUAGE FUNCTIONS AND ARRAY CONCEPTS ARE VERY IMPORTANT TO SOLVE THE MANY COMPLEX PROBLEMS IN REAL WORLD.

## FUNCTIONS

- IN MOST OF THE PROGRAMMING LANGUAGES, A BLOCK OF SEGMENT IN A PROGRAM THAT PERFORMS A SPECIFIC OPERATION TASK SUCH AS

- INSERT

- EXECUTE

- DELETE

- CALCULATE ETC. THIS SEGMENT IS KNOWN AS **FUNCTION**.



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# PHP FUNCTION

- A **FUNCTION** IS A TYPE OF **SUBROUTINE** OR **PROCEDURE** IN A PROGRAM.
- A FUNCTION WILL BE EXECUTED BY A **CALL** TO THE FUNCTION AND THE FUNCTION **RETURNS** ANY DATA TYPE VALUE OR NULL VALUE TO CALLED FUNCTION IN THE PART OF RESPECTIVE PROGRAM.
- THE FUNCTION CAN BE DIVIDED INTO THREE TYPES:
  - ❖ USER DEFINED FUNCTION
  - ❖ PRE-DEFINED OR SYSTEM OR BUILT-IN FUNCTION
  - ❖ PARAMETERIZED FUNCTION

# USER DEFINED FUNCTIONS

- **USER DEFINED FUNCTION (UDF)** IN PHP GIVES A PRIVILEGE TO USER TO WRITE OWN SPECIFIC OPERATION INSIDE OF EXISTING PROGRAM MODULE.
- TWO IMPORTANT STEPS THE PROGRAMMER HAS TO CREATE FOR USER DEFINED FUNCTIONS ARE:
  - **FUNCTION DECLARATION**
  - **FUNCTION CALLING**

# FUNCTION DECLARATION

## FUNCTION DECLARATION

- A USER-DEFINED FUNCTION DECLARATION BEGINS WITH THE KEYWORD “FUNCTION”.
- USER CAN WRITE ANY CUSTOM LOGIC INSIDE THE FUNCTION BLOCK.
- RETURN STATEMENT IS USED RETURN THE VALUE.
- **SYNTAX**

```
Function function_name( )  
{  
    Custom logic code to be  
    executed;  
}
```

# FUNCTION CALLING

## FUNCTION CALLING

- A FUNCTION IS EXECUTED BY A FUNCTION CALL STATEMENT.
- PROGRAMMER HAS TO CREATE FUNCTION CALLING PART INSIDE THE RESPECTIVE PROGRAM.

## SYNTAX

FUNCTION\_NAME()

### EXAMPLE

```
<?php
    function insertMsg()
    {
        echo "Hello! How are you?";
    }
    insertMsg(); //function call
?>
```

```
4 <body>
5 Welcome to PHP functions<br>
6 <?php
7 echo "Function delcaration". "<br>";
8 function insertmsg()
9 {
10 echo "<h1>Student Details inserted successfully</h1>";
11 }
12 echo "<br>". "Function calling". "<br>";
13 insertmsg();
14 ?>
15 </body>
16 </html>
```

# FUNCTION CALLING

## FUNCTION CALLING

- A FUNCTION IS EXECUTED BY A FUNCTION CALL STATEMENT.
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## SYNTAX

FUNCTION\_NAME()

### EXAMPLE

```
<?php
    function insertMsg()
    {
        echo "Hello! How are you?";
    }
    insertMsg(); //function call
?>
```

# Pre-defined or Built-in

- BUILT IN FUNCTIONS ARE FUNCTIONS THAT EXIST IN PHP INSTALLATION PACKAGE.
- THESE BUILT IN FUNCTIONS ARE WHAT MAKE PHP A VERY EFFICIENT AND PRODUCTIVE SCRIPTING LANGUAGE.

THE BUILT IN FUNCTIONS CAN BE CLASSIFIED INTO MANY CATEGORIES.

- **STRING FUNCTIONS** : TO MANIPULATE STRING DATA . (`ltrim()`, `rtrim()`, `strlen()` , `strcmp()` )
- **NUMERIC FUNCTIONS** : NUMERIC PHP FUNCTION CAN BE USED TO FORMAT NUMBERS, RETURN CONSTANTS, PERFORM MATHEMATICAL COMPUTATIONS ETC. (`is_numeric`, `sqrt`, `rand`, `cos`, `sin`, etc)
- **DATE FUNCTION** : TO FORMAT THE DATE. (`date()`, `time()` )
- **ARRAY FUNCTIONS** : FUNCTIONS THAT ACCESS AND MANIPULATE ARRAYS. (`count()`, `sizeof()`, `sort()`)

# PARAMETERIZED FUNCTION

- PHP PARAMETERIZED FUNCTIONS ARE THE FUNCTIONS WITH PARAMETERS.
- YOU CAN PASS ANY NUMBER OF PARAMETERS INSIDE A FUNCTION.
- THESE PASSED PARAMETERS ACT AS VARIABLES INSIDE YOUR FUNCTION.
- THE OUTPUT DEPENDS UPON THE DYNAMIC VALUES PASSED AS THE PARAMETERS INTO THE FUNCTION.
- THE ARGUMENTS ARE MENTIONED AFTER THE FUNCTION NAME AND INSIDE OF THE PARENTHESIS.
- THERE IS NO LIMIT FOR SENDING ARGUMENTS, JUST SEPARATE THEM WITH A COMMA NOTATION.

```
function function_name($variable1,$variable2)
{
    function definition ;
}
```

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```
function function_name($variable1,$variable2)
{
    function definition ;
}
```

```
function_name(value1,value2);
```

# EXAMPLE

THE FOLLOWING EXAMPLE HAS A FUNCTION WITH ONE ARGUMENT (\$SNAME):

```
<?PHP  
  FUNCTION SCHOOL_NAME($SNAME)  
  {  
    ECHO $SNAME."IN TAMILNADU.<BR>";  
  }  
  SCHOOL_NAME ("GOVERNMENT HIGHER SECONDARY SCHOOL MADURAI");  
  SCHOOL_NAME ("GOVERNMENT HIGHER SECONDARY SCHOOL TRICHY");  
  SCHOOL_NAME ("GOVERNMENT HIGHER SECONDARY SCHOOL  
  TIRUNELVELI");  
?>
```



ch5ex1.php ch5ex2.php ch5ex3.php ch5ex4.php

```
1 <html>
2 <body>
3 <?php
4 function school_name ($sname)
5 {
6 echo "<h1>". $sname ." in tamilnadu <br></h1>";
7 }
8 school_name ("Government Higher Secondary School Mad
9 school_name ("Government Higher Secondary School Tri
10 school_name ("Government Higher Secondary School Che
11 school_name ("Government Higher Secondary School Kan
12 school_name ("Government Higher Secondary School Tir
13 ?>
```

Government Higher Secondary School Madurai in tamilnadu

Government Higher Secondary School Trichy in tamilnadu

Government Higher Secondary School Chennai in tamilnadu

Government Higher Secondary School Kanchipuram in tamilnadu

Government Higher Secondary School Tirunelveli in tamilnadu



```
1 <html>
2 <body>
3 <?php
4 function school_name ($sname, $strength)
5 {
6 echo "<h1>".$sname." in tamilnadu ".$strength."</h1>";
7 }
8 school_name ("Government Higher Secondary School Mad");
9 school_name ("Government Higher Secondary School Tri");
10 school_name ("Government Higher Secondary School Che");
11 school_name ("Government Higher Secondary School Kan");
12 school_name ("Government Higher Secondary School Tir");
```

Government Higher Secondary School Madurai in tamilnadu 200

Government Higher Secondary School Trichy in tamilnadu 300

Government Higher Secondary School Chennai in tamilnadu 250

Government Higher Secondary School Kanchipuram in tamilnadu 100

Government Higher Secondary School Tirunelveli in tamilnadu 400



**THANK  
YOU !!**