

PHP

- ① Introduction, overview, characteristics, Advantage, disadvantages of PHP
- ② Declaring Variables in PHP
- ③ Data types in PHP [Integer, Boolean, Double, String, Array, object, NULL, Resource]
- ④ Operators in PHP [precedence & Associativity]
- ⑤ Expressions in PHP.
- ⑥ Session handling in PHP
- ⑦ Cookies in PHP
- ⑧ Control Structures [Conditional statements (if, ifelse, elseif, Switch)
Control loops (while, do while, for, for each)]
- ⑨ file handling in PHP (open, read, write, close)
- ⑩ handling file uploads
- ⑪ Form handling (or) form controls (get and post method)
- ⑫ Listing Directories
- ⑬ Scope and Lifetime of a Variable in PHP
- ⑭ Connecting to database [MySQL as a reference]

Introduction to PHP

- PHP was developed in the year 1994 by Apache group.
- It is a widely used open Source general purpose Scripting language that is Especially used for web development
- PHP Stands for hyper text preprocessor Earlier it is called as personal homepage.
- PHP is a Server Side Scripting language It is mainly used for form handling, database Access, web development.
- It is free to download & use.

Syntax:- `<?php`

`// Code is written here`

`?>`

Example:- `<?php`

`it is Statement` `echo "Hello";`

`which is used to` `generate output ?>`

- * A php Script Starts with `<?php` and ends with `?>`
- * In above example we use built-in PHP function "`echo`" to output "Hello" on web page
- * php statements ends with Semicolon (`;`)

Overview of PHP

⇒ PHP is a Server Side Scripting language Embedded in XHTML. It is an Alternative to CGI, ASP, ASP.NET, JSP.

Java Server Page Common Gateway Interface Active Server Page

⇒ The Extension to PHP files are .php, .php3, phtml

⇒ PHP makes use of dynamic typing that means there is no need to declare Variable type in PHP.

⇒ PHP has large number of library functions which makes it flexible to develop code of PHP

⇒ PHP processor works in two modes

(a) If PHP processor finds XHTML tags in the PHP script then code is simply copied to output file.

(b) But when PHP processor finds PHP code in script then code is simply understand and output is copied to output file.

Characteristics:

- ① Open Source: we can download PHP with free of cost in Internet.
- ② Simplicity: Since PHP does not include library functions like C, C++, So its structure is simple.

- ③ Efficiency: It uses Resource Allocation mechanisms, object oriented programming, Session management features, so it eliminates the unnecessary memory allocation.
- ④ Security: It supports Encryption functions for Security.
- ⑤ Flexibility: It is very flexible language because it can be embedded with HTML, CSS, JavaScript, XML and many other languages, and the PHP code can be run on any devices like phone, Tabs, Laptops etc.
- ⑥ Object Oriented: PHP supports OOP's features.

Advantages:

- ① It is supported by all operating systems like Windows, Linux, etc.
- ② It is integrated with other programming languages like HTML, CSS, JavaScripts etc..
- ③ It is easy to connect with the database to store and retrieve data from database.
- ④ It is fast programming language compared to other programming languages.
- ⑤ PHP frameworks & tools are used to protect web applications from attacks & threats.

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Disadvantages

- ① It is not Suitable for large Applications because its ~~main~~ maintenance is difficult
- ② Error handling of php framework is not good.

③ Declaring Variables in PHP :-

⇒ Variables are the Entities that are used for storing the values.
PHP is a dynamically typed language i.e., PHP has no type declaration.

⇒ The value can be assigned to the Variable in following manner.

Syntax:- \$variable_name = Value;

⇒ If the value is not Assigned to the Variable then by default the value is "NULL". and this unassigned variables are called unbound Variables and its null value is converted to the value 0.

Example:-

<?php

\$txt = "hello"; → when you Assign text
Value to a Variable
\$x = 5;
\$y = 10.5;
?>

then put Quotes
around it.

Rules that must be followed while using Variables:

- ① PHP Variables starts with \$ sign by Variable name and PHP Variable names are case sensitive; i.e. PHP treats Capital letters and Small letters differently.

Example: $\$x=10;$
 $\$a=10;$ $\$A=10;$
 both are different

- ② Variables must start with letter or under score.

Examples { $\$_E=10;$
 $\$_b=10;$

- ③ Variables must not start with number.

- ④ Variables must contain only Alpha numeric values.

- ⑤ There should not be Space in the name of the Variable.

Example 2:

```

<html>
<body>
<?php
  $x=5;
  $y=10;
  echo $x+$y;
?>
</body>
</html?>
  
```

} output : 15

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```
<html>
  <body>
    <?php
      $txt = "Avanthi College";
      echo "I love ". $txt;
    ?>
  </body>
</html>
```

I love Avanthi college.

(3) DATATYPES IN PHP:-

there are four Scalar types that are used in PHP.

they are

① Integer type

② Boolean type

③ Double type

④ String type

~~Scalar~~ types

① ~~Integer~~ → Variables can store data of different types, and different datatypes can do different things.

⇒ PHP also supports datatypes such as Compound type and Special type

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① Array \rightarrow Compound types

② object \rightarrow Special types

③ NULL

④ Resource

① Integer type:

It is used for displaying Integer Values. It is similar to long datatype in 'c'. Its size is 32 bit.

Example: \$x = 5 ;

\Rightarrow An integer must have at least one digit and it must be non decimal and it can be either positive or negative.

② Double type:

It is used for displaying Real Values.

Example: \$x = 10.5 ;

It includes number with decimal point. It is not compulsory to have numbers digits before \$ after decimal point.

③ Boolean type:

There are two types of values that can be defined by Boolean type they are true & false

True is Represented by 1 and False is Represented as 0.

Example: \$x=true;

\$x=false;

⇒ If Boolean Values are used in context of double type
then False is Represented as 0.0 and True is Represented
as 1.1.

String type:

⇒ There is no character datatype in PHP. If character
has to be represented then, it is Represented using
String datatype.

⇒ String is collection of characters. In PHP String
is denoted by Single or double Quotes.

⇒ The Simple PHP Script that Stores the String in a
Variable is given below.

<?php

\$A = "I like PHP";

→ echo \$A;

?>

O/P: I like PHP

Following are the various functions used for string handling (3)

- ① `strlen(string)` :- find length of string
- ② `strcmp(string1, string2)` :- this function compares strings and strings
- ③ `strtolower(string1)` :- converts characters in string 1 to lower case
- ④ `strtoupper(string1)` :- upper case
- ⑤ `trim(string1)` :- this function eliminates the white space from both ends of string.

① NULL :- NULL is a Special datatype in PHP which can have only one value : NULL.

⇒ A variable of data type NULL is a variable that has no value assigned to it.

⇒ If a Variable is created without a Value, it is automatically assigned a value of NULL.

\Rightarrow Variables can also be emptied by setting the value to null

Example: <?php

$\oint x = "Sai"$;

$\text{f}(\mathbf{x}) = \text{null};$

It is used to $\leftarrow \text{var_dump}(\text{fx});$
dump information
about Variable. ?>

Resource in PHP

- ↪ The Special resource type is not an Actual datatype.
it is the storing of a reference to functions and resources external to PHP.

Object type :-

⇒ PHP is object oriented programming language by we can create objects in PHP. object is Real world Entity. and this object is compound data type.

⇒ class is a template for object and object is an instance of class. In php we can create number of classes in a class and we can include number of objects in it. This object contains properties and Action. In class we need to write class name starting with Capital letter

Example: class Fruit {
 ↗ Capital letter
 ↘ }
= } code is written here

To declare an object of a class we need to use new statement

class myclass

2

obj = new MyClass;

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```
<?php  
$obj = new stdClass;
```

```
$obj->name = "Deepak";
```

```
$obj->age = 21;
```

```
$obj->marks = 75;
```

```
print_r($obj);
```

?

} object of stdClass is null
to begin with. we can add
properties dynamically

Output:- Std Class Object(

[name] => Deepak

[age] => 21

[marks] => 75

)

Arrays-

→ Arrays in php is a type of data structure that allows us to store multiple elements of similar datatype under a single variable thereby saving us the effort of creating a different variables for every data.

⇒ Array is a collection of similar type of elements and in php we can include elements of mixed type together in Single Array.

There are two ways to create Arrays in php

using Construct Array-

```
$mylist = array()  
array[10, 20, 30, 40, 50];
```

Assigning value directly to Array

```
$mylist[0] = 10;
```

An empty array can also be created using the array construct.

Example: \$mylist = array(); → array function is used to create Array
we can have mixed type of elements in the Array.

Example: \$mylist = array ("Archana", 519, 89.23);

There are three types of arrays in PHP.

① Numeric Array:- Arrays with a numeric index.

② Associative Array:- Arrays with named Keys.

③ Multidimensional Array:- Arrays containing one or more Arrays.

Example to count size of Array (or) Length of array:-

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
$bikes = array ("KTM", "Bullet", "Duke");  
echo Count($bikes);
```

```
?>
```

O/P: 3

```
</body>
```

```
</html>
```

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Example 2 :- <!DOCTYPE html>

```
<html>
```

```
<body>
```

```
<?php
```

```
$bikes = array ("KTM", "Bullet", "Duke");
```

```
echo "I like". $bikes[0]. " ". $bikes[1]. " and ".  
$bikes[2]. " .";
```

```
?>
```

```
</body>
```

```
</html>
```

Output :- I like KTM, Bullet and Duke.

3. OPERATORS IN PHP :-

- ① Arithmetic operators
- ② Assignment operators
- ③ Logical operators
- ④ Equality operators
- ⑤ Comparison operators

- ⑥ Increment & decrement operators
- ⑦ Bitwise operator

① Arithmetic operators :- there are 5 arithmetic operators that are used to perform mathematical operators they are +, -, *, /, %.

operators	Name	Example
+	Addition	$\$x + \y
-	Subtraction	$\$x - \y
*	multiplication	$\$x * \y
/	Division	$\$x / \y
%	modulus	$\$x \% \y

② Assignment operators (denoted by symbol "=")

operator	Name	Example
=	Assignment	$\$x = 2$
+=	Addition Assignment	$\$x += 2$
-=	Subtraction "	$\$x -= 2$
*=	Multiplication "	$\$x *= 2$
/=	Division "	$\$x /= 2$
%=	modulus "	$\$x \% = 2$

③ Logical operator:

Used to perform decision, i.e., Used to take decision

operator	Name	Example
&&	AND	$\$x \&& \$y \Rightarrow \$x \text{ AND } \y
	OR	$\$x \$y \Rightarrow \$x \text{ OR } \y
!	NOT	$\$x ! \$y \Rightarrow \$x \text{ NOT } \y
XOR	Exclusive OR	$\$x \text{ XOR } \y

④ Equality operator:

Used to compare two values

operator	Name	Example
==	Equal to	$\$x == \y
!=	Not Equal to	$\$x != \y
== =	is identical to	$\$x == = \y

⑤ Comparison operators :-

$<$, $>$, \leq , \geq , $=$, \neq

↓
Example: $\$x < \y Ternary

⑥ Increment & decrement operators:-

$\uparrow \downarrow$ $\downarrow \uparrow$
Increment Decrement
Example: $\uparrow \uparrow \$x \rightarrow$ pre-Increment
 $\$x \uparrow \uparrow \rightarrow$ post Increment

⑦ Bit wise operators:-

\wedge , $\wedge\wedge$, \vee , \sim , \ll , \gg
AND XOR OR NOT shift left shift right

Example: $\$x \& \y

Precedence and Associativity → means order of execution

↑ means priority by it represent which symbol has high priority and which symbol has low priority

from highest priority to lowest

highest → []
 $*$, $/$, $\%$
 $+$, $-$
 $>$, \geq , $<$, \leq
 $=$, \neq

↓ [AND]
 \parallel (OR) ← Lowest

operator	Associativity
+, -	R to L
*, /, %	L to R
<, <=, >, >=	L to R
= =, !=	L to R

4. EXPRESSIONS IN PHP:

⇒ Expressions are the most important building blocks of PHP,
almost anything we write is an Expression.

⇒ An Expression is defined as "anything that has a value"

Ex: ~~\$a = 5~~

⇒ Anything that appears to the right of assignment operator (=)
is an expression.

Syntax:

~~\$x = 100;~~ // 100 is an expression

~~\$a = \$b + \$c;~~ // ~~\$b + \$c~~ is an expression

~~\$c = add (\$a, \$b);~~ // add (\$a, \$b) is expr

~~\$var =~~

~~\$var = \$x != \$y;~~ // ~~\$x != \$y~~ is expression

⇒ Expression with ++ and -- operators are called
increment and decrement operators. Both prefix and post
++ operators increment value of operand by 1, whereas --
operators decrement by 1.

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pre increment

```
<?php
```

```
$x=10;  
echo $x;
```

```
?>
```

```
0|p: 11
```

post increment

```
<?php
```

```
$x=10;  
echo $x++;  
echo $x;
```

```
?>
```

```
0|p: 10  
11  
12
```

pre decrement

```
<?php
```

```
$x=10;  
echo -$x;  
?>
```

```
0|p: 9.
```

post decrement

```
<?php
```

```
$x=10;  
echo $x--;  
echo $x;  
?>
```

```
0|p: 10  
9  
8
```

→ php: Regular Expressions are Sequence of characters. Using Regular Expression, you can find a particular string. Replace one string by another, we can split single string into many parts etc..

→ Ternary operator has three operands. First one is logical expression. if it is TRUE, Second operand, expression is evaluated otherwise, third one is evaluated. Syntax: (condition) ? true : false;

```
<?php  
$x=20;
```

```
echo ($x<20) ? pass : fail;
```

```
?>
```

5 SESSION HANDLING IN PHP:-

- ⇒ when you work with an Application, you open it, do some changes and then you close it. This entire process is known as Session.
- ⇒ the computer knows who you are, It knows when you start the application and when you end. But in the internet there is one problem. the web server doesn't know who you are, or what you do, because the http address doesn't maintain state.
- ⇒ Session Variables: Solve this problem by storing user information across multiple pages by default, Session variables are present until user closes the browser. So, session variables hold information about one single user, and are available to all pages.
- ⇒ A Session is started with Session-Start() function. this function checks if a Session is already started, and if not is started then it starts session. This Session-Start() is put at the beginning of page.
- ⇒ If PHP Session function. this can be destroyed by using Session-Destroy function. this function does not need any arguments and can destroy a single session variable.
- ```
<?php
session_start();
?>
```
- to start session

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Unset function is used to unset a Session Variables

Known :

Start  
ernet

w who  
dress

information

ssion

user,

n.

is

destroy  
and

les.

```
<?php
unset($_SESSION['counter']);
?>
```

```
<?php
session_destroy();
?>
```

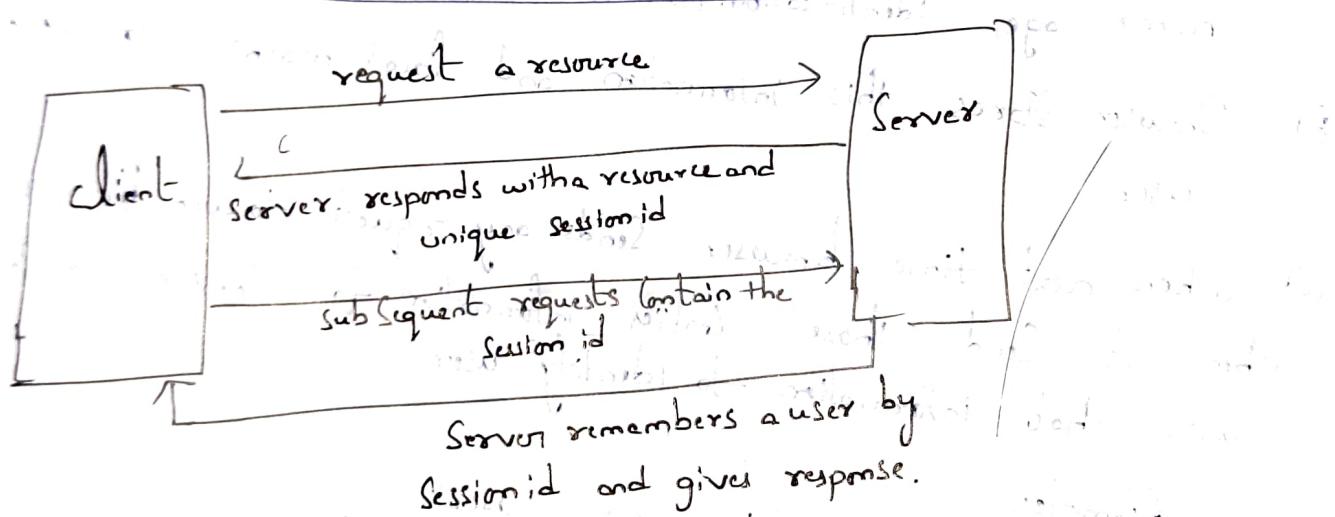


fig: Session handling.

## 6. COOKIES IN PHP :-

A cookie is often used to identify a user. A cookie is a small file that the server embeds on the user's computer. It is used for tracking purpose. Each time the user's computer requests a page with a browser, it will send the cookie too. With PHP, you can both create and retrieve cookie values.

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=> A cookie is created with the SetCookies() function

Syntax: SetCookie( name, value, expire, path, domain );

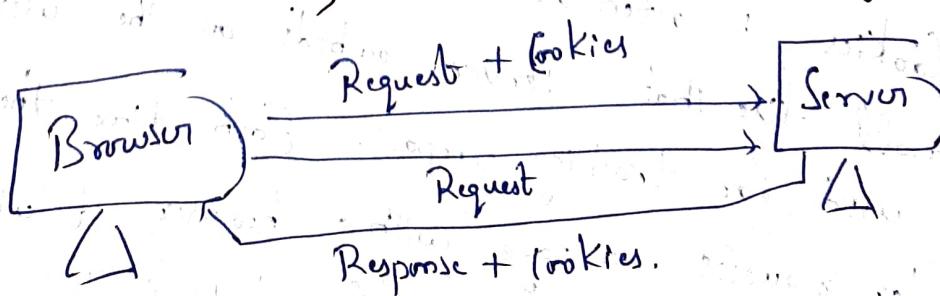
=> only name parameter is required. All other parameters are optional.

=> PHP transparently supports HTTP cookies. There are three steps involved in identifying & returning user.

- (a) Server Script Sends Set of Cookies to the browser. For example name, age, identification number etc..
- (b) Browser Stores this information on local machine for future user.
- (c) When next time browser sends any request to web server then it sends those cookies information to server and server uses that information to identify user.

Example:

```
<?php
$cookie_name = "user";
$cookie_value = "John";
SetCookies ($cookie_name, $cookie_value,
time() + (86400 * 30));
?>
```



## 7. CONTROL STRUCTURES IN PHP:

allows us to control the flow of execution of code. Generally code is executed sequentially.

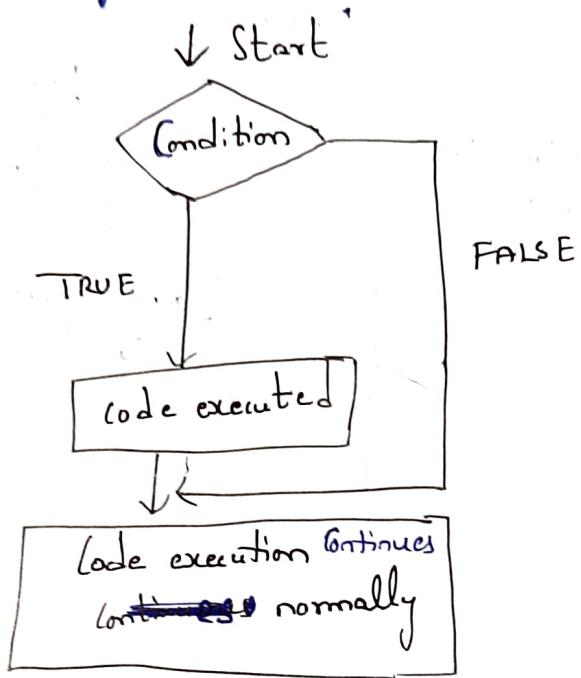


Fig:- Structure of Control Structures.

⇒ there are two types of Control Structures in PHP they are

② Conditional Statements

③ Control Loops

④ Conditional statements:

Conditional statements are used to perform different actions based on different conditions. There are four conditional statements in php they are

① If Statement

② if...else Statement

③ if...elseif...else Statement (elseif statement)

④ Switch Statement.

## ① If statement:

It executes some code if ~~not~~ condition is true.

Syntax: if (condition)  
  {

    code to be executed if condition  
    is true;  
  }

Program:

<?php

\$age = 50;

if (\$age > 30)  
  {  
    50

echo "your age is more than 30";  
  }

}

?>

O/p: your age is  
more than 30

## ② If else statement:

It executes some code if a condition is true and another code if that condition is false.

Syntax: if (condition)  
  {

    code to be executed if  
    (condition is true);  
  }

else  
  {

    code to be executed if  
    (condition is false);  
  }

Program:

<?php

\$t = ~~10~~ 10;

if (\$t < "20")

{  
  echo "Have a good day!"  
}

else  
  {

  echo "Have a good night!"  
}

?>

## ③ ~~if~~ ... else if ... ~~if~~ Statement:

Use this statement to specify a new condition to test, if first condition is false.

Syntax:

```
if (condition)
```

```
{
```

Code to be executed if condition is true;

```
}
```

```
else if (condition)
```

```
{
```

Code to be executed if first condition  
is false and this is true;

```
}
```

```
else
```

```
{
```

Code to be executed if all conditions  
are false

```
}
```

Program:

```
<?php
```

```
$t = 10;
```

```
if ($t < "10")
```

```
{
```

```
echo "good morning!";
```

```
}
```

```
else if ($t < "20")
```

```
{
```

```
echo "good Afternoon!";
```

```
}
```

```
else
```

```
{
```

```
echo "good night!";
```

```
}
```

```
}
```

```
?>
```

## ④ Switch Statement:

⇒ Switch Statement is a multiple choice Selection

# Syntax:

①

Switch (n)

{

case label1;

(code to be executed if n=label1);

break;

case label2;

(code to be executed if n=label2);

break;

:

default:

(code to be executed if n is different  
from all labels);

}

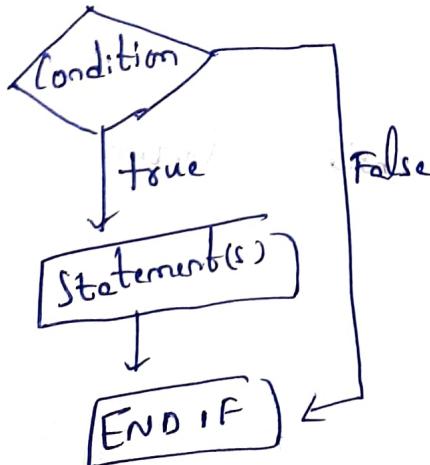


fig. if statement flowchart

Program: ~~if~~

<?php

\$f colour = "red";

Switch (\$colour)

{

Case "red":

echo "your colour is red!";

break;

Case "blue":

echo "your colour is blue!";

break;

Case "green":

echo "your colour is green!";

break;

default:

echo "your colour is not present";

}

!

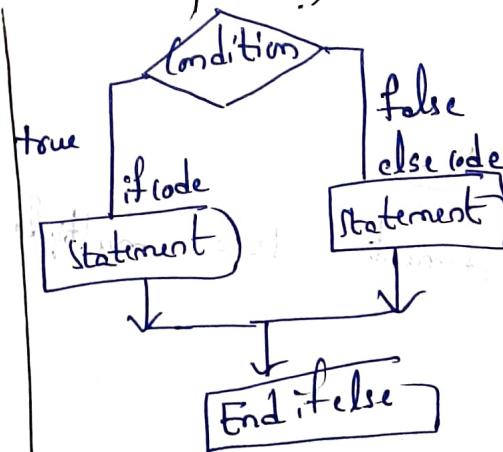


fig. if else flowchart

~~exp expression~~

~~start~~

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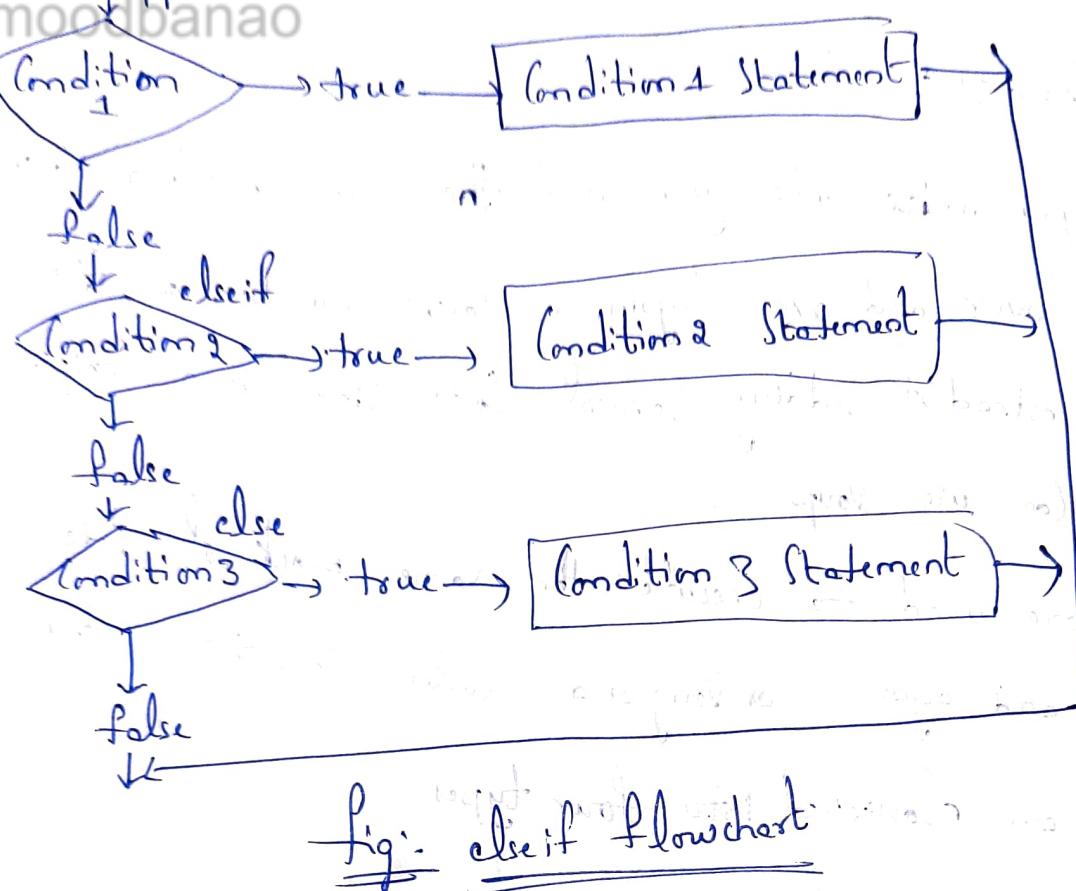
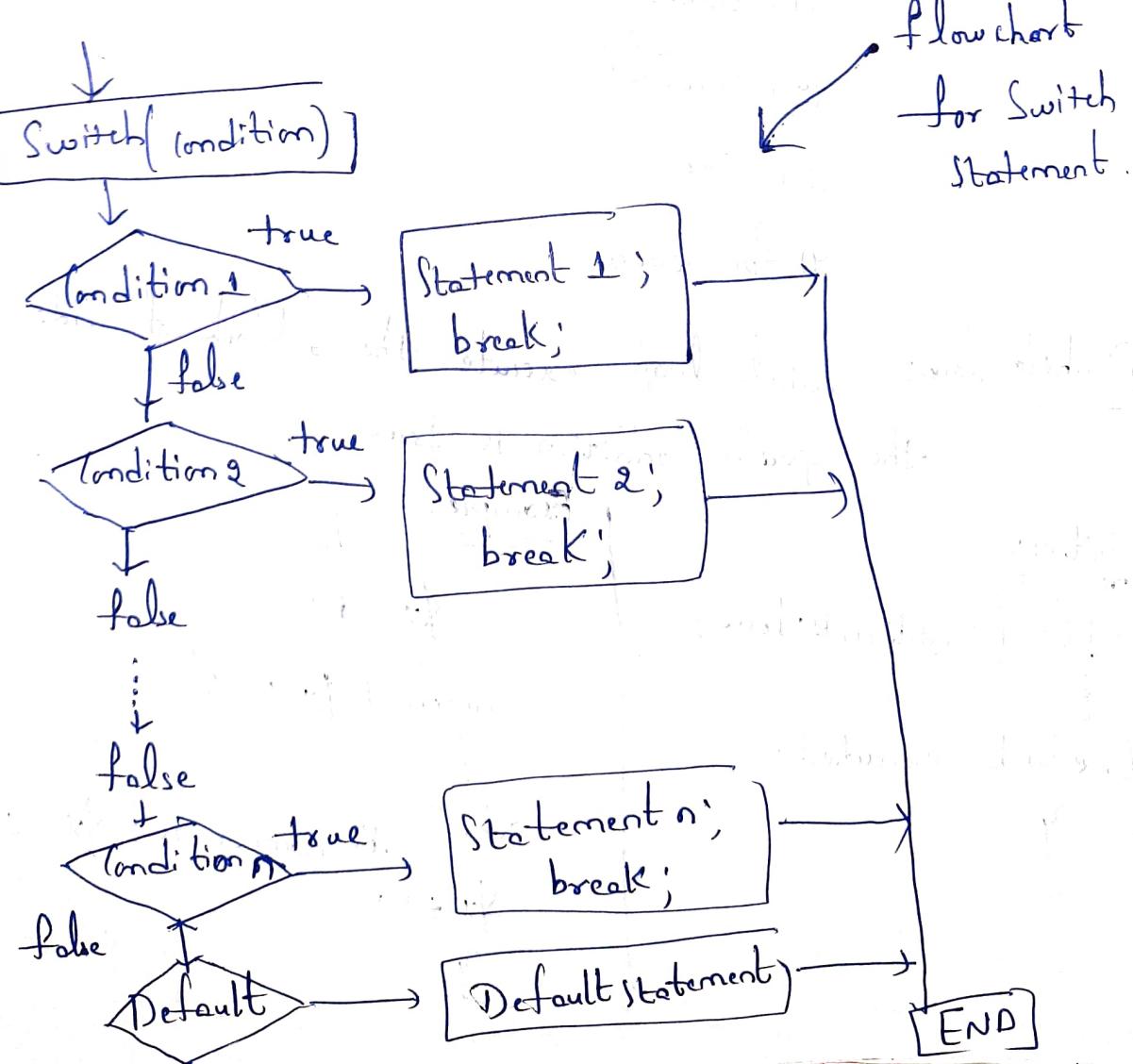


fig: elseif flowchart



flowchart  
for Switch  
Statement.

## Q2 Control loops:

⇒ when you write code, you want the same block of code to run over and over again a certain number of times. So, instead of adding several code lines in a script, we can use loops.

⇒ loops are used to execute the same block of code again and again, as long as a certain condition is true.

⇒ loops are classified into four types

- ① while
- ② do while
- ③ for
- ④ for each

① while loop: while loops execute the a block of code as long as the specific condition is true

Syntax:

```
while (condition is true)
{
 Code to be executed;
}
```

Example:

```
<?php
$x = 1;
while ($x <= 5)
{
 echo "The number is: $x
";
 $x++;
}
?>
```

Output: 1,2,3,4,5

### ② do-while loops:

do while loops through a block of code once, and then repeats the loop as long as the specific condition is true.

Syntax:

```
do
{
 {condition to be executed}
}
while(condition is true);
```

Program:

```
<?php
```

```
$x=1;
```

```
do
```

```
{echo "The number is $x
";
```

```
$x++;
```

```
}while($x<=5);
```

```
?>
```

|     |               |
|-----|---------------|
| Op: | 1, 2, 3, 4, 5 |
|-----|---------------|

This number is  
1  
2  
3  
4  
5

### ③ For loop:

For loop, through block of code a specific number of times

Syntax:

```
for(init counter ; test counter ; increment counter)
```

```
{
 {code to be executed for each iteration}
}
```

Example:

```
<?php
```

```
for ($x=0 ; $x<=10 ; $x++)
{
 echo "the number is $x:
";
}
```

Output:  
the number is 0  
" " 1  
" " 2  
" " 3  
" " 4  
" " 5  
" " 6  
" " 7  
" " 8  
" " 9  
" " 10

#### ④ for each:

⇒ for each loops through a block of code for each element in an array

⇒ for each loop works only on Array, and is used to loop

= through each Key/Value pair in an array

#### Syntax:

= for each (\$array as \$value)

{  
Code to be executed;  
}

#### Program: <?php

```
$colors = array ("red", "green",
 "blue", "yellow");
```

for each (\$colors as \$value)

{  
echo "\$value<br>";  
}

?>

O/p:  
red  
green  
blue  
yellow

## 8 FILE HANDLING IN PHP

File handling is an important part of any web Application  
For different tasks we need to open and process a file.

⇒ php has several functions for creating, reading, upload,  
editing etc..

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File handling in PHP is similar as file handling done by using any programming languages like C.

PHP has many functions to work with normal files. Those functions are

(1) fopen():  
↓  
fileopen.

→ PHP fopen() function is used to open file. It takes two parameters.

function

(contains name of file to be opened).

mode

It includes in which mode file should be opened

Example: <?php

```
f=fopen("f.txt","w");
```

}

modes:

r → read only

w → write only

r+ → read/write

w+ → Read/ write.

a → Append

a+ → Read/Append

(2) fread():

After file is opened using fopen() the contents of data are read using fread().

modulabang

It takes two arguments

- ① pointer to file
- ② file size [in bytes]

Syntax: \$filedata = fread (\$file, \$size);

⇒ we can also use other functions like fgets() & fgetc() to read functions from file

### ③ fwrite()

⇒ New file can be created or text can be appended to an existing file using fwrite() function.

⇒ fwrite() and fputs() are functions used to write data into file

modes: w, x+, w+, wt, x, xt... etc.

### ④ fclose()

File is closed using fclose() function. Its argument is file which needs to be closed.

Example: fclose (\$file);

### ⑤ ~~Delete~~ unlink():

Used to delete the file. only one parameter is Accepted i.e., file name.

Example: unlink (\$file)

if file is successfully deleted it display TRUE else it Returns  
False.

## 9. HANDLING FILE UPLOADS:

- PHP allows you to upload single and multiple files through few lines of code.
- PHP file upload feature allows you to upload binary and text files. Both moreover, you can have the full control over the file which you have uploaded by using PHP.
- PHP also supports authentication & file operation functions.

### PHP \$\_FILES :-

The PHP global \$\_FILES contains all the information of file. By the help of \$\_FILE global, we can get filename, filetype, filesize, temp file name and errors associated with file.

Here, in this example, we are assuming the file name is filename.  
\$\_FILES['filename']['name'] :- It is used to return the name of the file.

\$\_FILES['filename']['type'] :- "MIME-type"  
(multipurpose Internet mail extensions)

\$\_FILES['filename']['size'] :- "Size"

\$\_FILES['filename']['tmp\_name'] :- "Temporary name".

\$\_FILES['filename']['error'] :- "errors associated with the file".

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move\_uploaded\_file() function

move\_uploaded\_file()

⇒ The move\_uploaded\_file() function moves the uploaded file to a new location. The move\_uploaded\_file() function checks internally if the file is uploaded through POST Request. It moves the file if it is uploaded through post Request.

Syntax: move-uploaded-file (String \$filename, String \$file, String \$destination)

## 10. FORM HANDLING (OR) FORM CONTROLS :

- ⇒ we can create and use forms in PHP. To do this, we need to use
- ⇒ To get the data present in the form, we need to use

⇒ To get values from user input  
PHP SuperGlobals, they are

- PHP Superglobals. They are used to collect form data.

① ~~\$- GET~~ is GET method  
② ~~\$- POST~~ is POST Method

↳ either or both methods

② \$-POST ~~form~~  
we can send form request by using get or post methods.  
if we are using get method we need to use \$-get

⑤  $\Rightarrow$  To retrieve data by using get method we need to use \$-  
post " \$- po!

u u n

## PHP Post form

post request is widely used to submit form that have large amount of data such as file uploads, image uploads, login forms, registration forms etc.

- ⇒ The data passed through post request is not visible on the URL browser. So it is secured. you can send large amount of data through post request.
- ⇒ A simple example to receive data from post request in php is file.html.

```
<html>
<body>
<form action = "Data.php" method = "post">
Name: <input type = "text" name = "name" >

Email: <input type = "text" name = "email" >

<input type = "submit" value = "Submit" >
</form>
</body>
</html>
```

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<html>

<body>

welcome

<?php

echo \$\_POST ["name"] ;

?>

<br>

your email address is :

<?php

echo \$\_POST ["email"] ;

?>

</body>

</html>

← Data.php file

O/p:

Name:

Email:

Submit

Welcome Sai

your email address is :

nsai305@gmail.com

PHP Get method:

This Get Request is the default form Request. The data passed through get request is visible on the URL browser, So it is not Secure. you need to send limited amount of data through get Request.

## file.html

```

<html>
<body>
<form action = "Data.php" method = "get">
 Name: <input type = "text" name = "name" >

 Email: <input type = "text" name = "email" >

 <input type = "Submit" action = "submit" >
</form>
</body>
</html>

```

## Data.php file

```

<html>
<body>
 welcome
 <?php
 echo $_GET["name"];
 ?>


```

your email address is :

```

 <?php
 echo $_GET["email"];
 ?>

```

```

</body>
</html>

```

0/p:

Name: [Sai]

Email : [nsai305@gmail.com]

Submit

welcome Sai

your email address is :

nsai305@gmail.com

## 12. LISTING DIRECTORIES

- ⇒ PHP provides a support of directory functions that allows you to retrieve information about directories and its contents.
- ⇒ Various directory functions are given below.

Function	Description
chdir()	change current directory " .. , root "
closedir()	close current working directory
getcwd()	Returns " "
opendir()	open directory handle
readdir()	read an entry of directory
rewinddir()	Reset a directory handle.
dir()	Returns an instance of the directory class

- ⇒ The directory functions are part of PHP Core.  
No installation is required to use these functions.
- ⇒ The opendir and readdir are the two important directory functions that are commonly used while listing the contents of a directory. Let us discuss Syntax of the

## ① opendir:

Syntax:

opendir (path, context);

parameters

denotes path  
of specific  
directory

(optional)  
used to denote  
behaviour of stream

## ② Read dir:

Syntax: readdir (handle);

optional parameter.

It denotes directory handle resource  
which is opened with opendir()

## ③ Closedir:

Syntax: closedir (handle);

optional parameter.

It denotes directory handle resource  
which is opened with opendir()

## 12. SCOPE AND LIFETIME OF VARIABLES

IN PHP

# moodbanao

## Scope of a variables

Variables are of three types

① Local Variables

② global Variables

③ static

⇒ Global Variables can be accessed anywhere in the program. To access global Variables in a function, it must be declared in a global declaration of function using global Keyword! otherwise, the Variable acts as a local Variable.

<? php

~~\$a=1;~~

~~\$b=2;~~

Output:- 3

if you want to define global variable inside a function we use global keyword.

global \$a, \$b;

\$b = \$a + \$b;

}

Sum();

echo \$b;

?>

## Static

Normally, when a function is completed / executed, all of its variables are deleted. However, sometimes we want a local variable NOT to be deleted. To do this we use Static Keyword

Eg. → Static \$x=10;

Lifetime of Variable

⇒ The life time of local Variable in php function begin when Variable is first used and ends when the function execution terminates i.e. after termination of function ~~exit~~ execution, the value of local Variable is lost.

⇒ The life time of a static local Variable in a function begin when the Variable is ~~not~~ first used in function, and ends when the Script Execution terminates.

This Static Local Variables is Specified using `static` keyword.

### 3. CONNECTING TO DATABASE [MySQL as a reference]

⇒ MySQL is open Source database product and Can be downloaded from the ~~used~~ internet.

⇒ MySQL is a kind of database in which the records are stored in an entity called table. In the table the data is arranged in the rows and columns. we can query a database to retrieve particular information. Query is a request or a question for database.

⇒ PHP is a Server side Scripting language and it has an ability to create dynamic pages with customized features.

Using PHP- MySQL user friendly and interactive websites can be created.

- ⇒ Both PHP and MySQL are open source technologies that work hand-in-hand to create rich internet Applications. and it is highly Secure.
- ⇒ PHP-MySQL are stable technologies and have cross platform capability. Hence the web application developed using these technologies become portable.
- ⇒ Since HTML is embedded with PHP, there is no need to write Separate code for web- Scripting.
- ⇒ PHP has got a strong Support for developing e-commerce applications using the technologies Such as Ecommerce, Drupal and So on.
- ⇒ The most popular websites being developed using PHP and MySQL Technologies are

① Facebook

② wordpress

③ wikipedia

④ Yahoo!

⇒ `mysql_connect()` function is used to establish a connection between PHP and MySQL.

### Functions in MySQL:

to (create data base): function `mysql_query()` is used  
for errors in commands: `mysql_error()` "

Selecting database: ..

`mysql_select_db()` "

Listing Database: ..

`mysql_list_dbs()` "

⇒ Tables are present inside the database .

function `mysql_list_table` function is used to display tables present in database ~~in~~, we can also use `mysql_query`. we can perform various operations like

- ① Create a table
- ② Inserting data into the table
- ③ Altering table
- ④ Deleting table.