PHP: PHP is stand for hypertext pre processor. It is open source server side scripting language which used for developed dynamic websites. It was developed by Rasmus Lerdrof around 1994.

```
Extension : .php
Advantage
       open source (source code can change)
       multiplatform(win, linux, mac)
       support many databases (e.g mysql, oracle etc)
       support many web servers (e.g. apache, iis etc)
        easy to use, light weight, fast processing
        support opps features
php
xampp (Cross)
wamp (windows)
lamp (linux)
mamp (mac)
xampp download from apachefriends.org
install
xampp control panel (start apache and mysql)
save file
       c://xampp/htdocs/folder/filename.php
e.g.
        c://xampp/htdocs/06pm/first.php
code
____
        (browser)
http://localhost/06pm/first.php
localhost/06pm/first.php
Tags(Delimeters)
1 standard tag
```

<?php

```
?>
2 short tag
        <?
        ?>
3 Asp tag
        < %
        응>
for output on screen
        echo
                 * fast processing
                 * it can execute multiple statement
                         e.g.
                                  echo "","","";
                                  echo "Hello", "Ducat";
        print
                 * slow processing
                 * it can execute only single statement
                         e.g.
                                  print "";
                                  print "Hello";
concatination ( . )
        echo "Hello"."Ducat";
print "Hello"."Ducat";
new line
        <br/> (webpage)
        \n (file)
echo "Hello <br> PHP";
print "Hello <br> PHP";
echo "<h1>India</h1>";
```

```
//
                        single line comments
                        single line comments
        /*
                        multiple line comments
        * /
variable : it is a temporary memory location which used for hold the
information. the value of variable can vry(change) at run time.
Rules for declare variable
* start from $ sign
* continue with a-zA-Z
* can combination a-zA-Z0-9
e.g.
        $a;
        $D;
        $5;
                        wrong
        $ A;
        $a5;
        $5a; wrong
$a = 5;
echo $a;
$b = "India";
echo $b;
Data Types : in php data types allocate automatically at run time
according to variable value.
        int, string, double, array, object, resource, boolean, null
check data type
```

show only data type

gettype(var name)

comments

```
var dump(var name)
                                        print, show data type and value
e.g.
        a = 5;
        echo gettype($a);
        var dump($a);
e.g
        x = 5;
        echo "value of x is ".$x;
e.g.
        a = 5;
        $b = 3;
        echo "value of a is ".$a." and value of b is ".$b;
e.g.
        $z = 8;
        echo "value of z = ".$z;
                                                (value of z is 8)
        echo "value of z = \$z";
                                                 (value of z is 8)
        echo 'value of z = \$z';
                                                 (value of z is $z)
Constant: it is a temporary memory location which used for hold the
information. the value of constant can not vry(change) at run time.
        defined("constant name", "value");
        const constantname = value;
        Rules for define constant name
                * always start from a-zA-Z
                * can use a-zA-Z0-9
        e.g
                define("HOST", "Localhost");
                const HOST = "Localhost";
                echo HOST;
        e.g.
```

define("A", "India");

```
or
const A = "India";
echo A;
```

Operators: It is a special symbols which meanings are predefine. They work accoring to ther predefine meaning.

Type of Operators

```
1 Arithmetic Operator
```

```
+ Addition
- Substraction
* Multiplication
/ Division
% Modulus

e.g.
$a = 10;
$b = 3;
```

2 Assignment Operator

It used for shift the value from right side to left side

```
=
+=
-=
*=
/=
%=
e.g.
$a = 5;
$b = 2;
$a = $a+$b
or
$a += $b;
```

a = a-b;

```
$a -= $b;
```

3 Comparision Operator

```
match only value
match value and data type
!= match only value
match only value
match value and data type

$a = 5;
$b = "5";

$a == $b;
$a === $b;
$a === $b;
```

4 Increment Operator

```
++
                Increment By 1
        --
                Decrement By 1
$a = 5;
$a++;
            // Output 6
echo $a;
$a = 5;
++$a;
            // Output 6
echo $a;
$a = 5;
echo $a++; // Output 5
echo $a; // Output 6
$a = 5;
echo ++$a; // Output 6
echo $a;
               // Output 6
$a = 5;
$a++;
             // Output 6
// Output 5
// Output 5
echo $a;
echo --$a;
echo $a;
```

```
Greater than
                       Greater than equal too
                >=
                <
                       Less than
                <=
                       Less than equal too
        e.g.
                $a = 5;
                b = 5;
                $a >= $b;
6 Logical Operator
               AND
        & &
               OR
        NOT
        ($a>$b && $a>$c) Both Condition True
        ($a>$b || $a>$c) At Least One Condition True
7 Conditional Operator
 Ternary Operator
 Question Colon Operator
 syntax
        (condition ? "True Statement" : "False Statement")
 e.g.
        $a = 5;
       $b = 3;
        echo ($a>$b ? "A is Greater" : "B is Greater");
Conditional Statement
1 if
2 if else
3 if else if
```

5 Relational Operator

4 switch case

```
Q wap to store a 3 digit number in a variable, check that number is
palindrome or not ?
        $no = 134;
Q wap to store 3 digit number in a variable, check that is it armstrong
or not ?
       pole = 153
Loop: Loop is used for execute same statement multiple times.
Types
1 for
        syntax
        for(initialize; condtion; inc/dec)
                code
        }
        e.g
        for($i=1; $i<=5; $i++)
               echo "Hello";
        e.g
        for($i=5; $i>=1; $i--)
                echo "Hello";
        }
2 while
                syntax
```

initialization;

```
code
                        inc/dec
                }
        e.g.
                $i=1;
                while ($i <= 5)
                        echo "Hello";
                        $i++;
                }
3 do while
        syntax
                intitialization
                do
                {
                        code
                         inc/dec
                }while(condition)
                e.g.
Q Wap to print factorial of a given number.
        no = 5;
Q. wap to print fibonacci series upto 10 numbers.
        0 1 1 2 3 5 8 ......
Q. wap to check that given number is palindrome or not.
        $no = 121;
Q. wap to check that given number is armstrong or not ?
        $no = 153;
```

while(condition)

```
Jump Statement
```

- 1 break
- 2 continue
- 3 exit

* * *

**

*

**

*

1

12 123

1234

12345

1

22

333 4444

55555

abcd

abcd

abcd

01 03 05 07

09 11 13 15

17 19 21 23

25 27 29 31

02 04 06 08

10 12 14 16

```
18 20 22 24
26 28 30 32
```

Q write a program to print prime number upto 100; Q write a program to print table till given number. sno = 4;1..... 2.... 3..... 4..... ***** **** *** ****

* *

* * * * *

*

(i,j)(1,2) (1, 1)(1,3)(1, 4)(1,5)(2, 2)(2,4) (2,1)(2,3)(2,5)(3, 1)(3, 2)(3,3) (3, 4)(3, 5)(4,2) (4, 5)(4, 1)(4,3)(4,4)(5, 3)(5, 1)(5, 2)(5, 4)(5, 5)

01 03 05 07 03 05 07 09 05 07 09 11 07 09 11 13

```
1
   2 2
  3 4 3
 4 5 6 4
5 6 7 8 5
n=3
{ * }
  { { * } }
     { { { * } } } }
n=4
{ * }
   ({*}}
        { { { * } } } }
                            { { { { * } } } } }
n=3
1
22
22
333
333
333
n=4
1
22
22
333
```