

## PHP Programming

### Part-1

#### Basics, Operators, Conditions and Loops:

##### Program 1:

Create a PHP page, with the standard HTML <head>, <title> and <body> tags. Inside the <body> tag, create a PHP section that will show the text “Hello World!” in the browser.

##### Solution:

```
<html>
<title>
First page
</title>
<body>
<?php
echo "Hello World!!!";
?>
</body>
</html>
```

##### Output:

Hello World!!!

##### Program 2:

Echo the following statement to the browser:

“Twinkle, Twinkle little star.”

Next, create two variables, one for the word “Twinkle” and one for the word “star”. Echo the statement to the browser, this time substituting the variables for the relevant words. Change the value of each variable to whatever you like, and echo the statement a third time.

##### Solution:

```
<html>
<title>
First page
</title>
```

```
<body>
```

```
<?php
echo "<h1>Twinkle, Twinkle little star.";
$var1="Twinkle";
$var2="star";
echo "<br>";
echo $var1.", ".$var1." little ".$var2.".";
$var1="Sundar";
$var2="Sundar";
echo "<br>";
echo $var1.", ".$var1." little ".$var2.".";
```

```
?>
```

```
</body>
</html>
```

##### Output:

Twinkle, Twinkle little star.  
Twinkle, Twinkle little star.  
Sundar, Sundar little Sundar.

##### Program 3:

Create the following variables: \$x=10; \$y=7; Write code to print out the following:

10 + 7 = 17

10 - 7 = 3

10 \* 7 = 70

10 / 7 = 1.4285714285714

10 % 7 = 3

Use numbers only in the above variable assignments, not in the echo statements. You will need a third variable as well.

##### Solution:

```
<html>
<title>
1st page
</title>
<body>
<?php
$x=10; $y=7;
$z=$x+$y;
```

```
echo $z."</br>";
$z=$x-$y;
echo $z."</br>";
$z=$x*$y;
echo $z."</br>";
$z=$x/$y;
echo $z."</br>";
$z=$x%$y;
echo $z."</br>";
?>
</body>
</html>
```

### Output:

```
17
3
70
1.4285714285714
3
```

### Program 4:

Write a script for the following:

Define \$name="Your\_Name"&

\$age="Your\_Age"

for ex.

\$name="Nitin"

\$age="32"

Then write a PHP script that outputs the following one by one. You can use only line breaks in echo statement.

>string(5) "Nitin"

>Nitin

>int(32)

>NULL

Hint: var\_dump() and print\_r().

### Solution:

```
<!DOCTYPE html>
<html>
<body>
<?php
```

```
$name="Rohan Singh";
$age=25;
var_dump($name);
echo "</br>";
var_dump($age);
unset($age);
$age=NULL;
//unset($age);
echo "</br>";
var_dump($age);
?>
```

</body>

</html>

### Output:

```
string(11) "Rohan Singh"
int(25)
NULL
```

### Program 5:

Write a script using variables to store strings. Then concatenate the strings using echo statement

### Solution:

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
echo "<h1 style='color: pink;'>Without
Concatenated strings</h1>";
$str="<b>Rohan singh</b>";
echo $str."</br>";
```

```
$str1=" <b>The White Hat Hacker(Bug
Bounty Hunter)</b>";
echo $str1."</br>";
```

```
echo "<h1
style='color:green;'>Concatenated
strings</h1>";
echo $str.$str1;
```

```
?>
```

```
</body>
```

```
</html>
```

**Output:**

Without Concatenated strings

Rohan singh

The White Hat Hacker(Bug Bounty Hunter)

Concatenated strings

Rohan singh The White Hat Hacker(Bug  
Bounty Hunter)

**Program 6:**

Write a script using one variable “\$data” to print the following to the browser. Assign different type of elements in the variable one by one. The use a function within echo statement which can print the datatype of the value assigned to the variable.

Value is string.

Value is double.

Value is boolean.

Value is integer.

Value is NULL.

**Solution:**

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
echo "<pre style='text-align:center;'><h1>";
$z="rosh";echo "rosh => ";
echo gettype($z)."</br>";
```

```
$z=1234.4;
```

```
echo "123.4 => ";
```

```
echo gettype($z)."</br>";
```

```
$z=FALSE;
```

```
echo "FALSE => ";
```

```
echo gettype($z)."</br>";
```

```
$z=123;
```

```
echo "123 => ";
```

```
echo gettype($z)."</br>";
```

```
$z=NULL;
```

```
echo "NULL => ";
```

```
echo gettype($z)."</br>";
```

```
echo "</pre>"
```

```
?>
```

```
</body>
```

```
</html>
```

**Output:**

```
rosh => string
```

```
123.4 => double
```

```
FALSE => boolean
```

```
123 => integer
```

```
NULL => NULL
```

**Program 7:**

Write a script that gets the current month and prints one of the following responses using if-else control statements, depending on whether it's June or not:

It's June, so it's really hot.

Not June, so at least not in the peak of the heat.

Hint: the function to get the current month is 'date('F', time())' for the month's full name.

**Solution:**

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
//echo date('F', time());
```

```
echo "<pre style='text-align:center;'><h1>";
```

```
if(date('F', time())=="June")
```

```
{echo "<div style='color:green;'>It's June, so  
it's really hot.";
```

```
}
```

```
else
```

```
{echo "<div style='color:red;'>Not June, so  
at least not in the peak of the heat.";}  
echo "</pre>";
```

```
?>
```

```
</body>
```

```
</html>
```

**Output:**

Not June, so at least not in the  
peak of the heat.

**Program 8:**

Write a script using first a while loop, then a do while loop, then two for loops. The script will output the following to the browser:

abc abc abc abc abc abc abc abc abc

xyz xyz xyz xyz xyz xyz xyz xyz xyz

1 2 3 4 5 6 7 8 9

1. Item A

2. Item B

3. Item C

4. Item D

5. Item E

**6. Item F**

Create the 'abc' row with a while loop, the 'xyz' row with a do while loop, and the last two sections with for loops. Remember to include HTML and source code line breaks in your output. No arrays allowed

**Solution:**

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
echo "<pre style='text-align:center;'><h1  
style='color:brown;'>";
```

```
$a=9;
```

```
while($a--)
```

```
{
```

```
echo "abc ";
```

```
}
```

```
echo "<br>";
```

```
$b=9;
```

```
do{
```

```
echo "xyz ";
```

```
$b=$b-1;
```

```
}while($b);
```

```
echo "<br>";
```

```
$i=0;
```

```
for($i=1;$i<=9;$i++){
```

```
echo $i." ";
```

```
}
```

```
echo "<br>";
```

```
for($i=1;$i<=6;$i++){
```

```
echo $i.". Item ".chr(64+$i)."<br>";
```

```
}
```

```
echo "</pre>";
```

```
?>
</body>
</html>
```

## Output:

```
abc abc abc abc abc abc abc abc abc
xyz xyz xyz xyz xyz xyz xyz xyz xyz
  1 2 3 4 5 6 7 8 9
    1. Item A
    2. Item B
    3. Item C
    4. Item D
    5. Item E
    6. Item F
```

## Program 9:

Using a for loop, write a script that will send to the browser a list of squares for the numbers 1 to 15. Use the format, "1 \* 1 = 1", and be sure to include code to print each formula on a different line

### Solution:

```
<!DOCTYPE html>
<html>
<body>
<?php
//echo "<pre style='text-align:center;*><h1
style='color:brown'>";
echo "<h1 style='color:red;text-
align:center;*>Square Table from 1 to
15</h1>";
echo "<table bgcolor='brown'
align='center' style='font-size:25px;'
border='1'>";
for($i=1;$i<16;$i++)
{echo "<tr>";

{echo "<td>";
echo $i."*".$i."=";
echo $i*$i. " ";
echo "</td>";
```

```
}
//echo "</br>";
echo "</tr>";
}
echo "</table>";
//echo "</pre>";
```

```
?>
```

```
<body>
<marquee><b style="color:red;*>Created:
xyz</marquee>
</body>
</html>
```

## Output:

### Square Table from 1 to 15

|           |
|-----------|
| 1*1=1     |
| 2*2=4     |
| 3*3=9     |
| 4*4=16    |
| 5*5=25    |
| 6*6=36    |
| 7*7=49    |
| 8*8=64    |
| 9*9=81    |
| 10*10=100 |
| 11*11=121 |
| 12*12=144 |
| 13*13=169 |
| 14*14=196 |
| 15*15=225 |

## Program 10:

In this PHP exercise, use two for loops, one nested inside another. Create the following multiplication table:

|   |    |    |    |    |    |    |
|---|----|----|----|----|----|----|
| 1 | 2  | 3  | 4  | 5  | 6  | 7  |
| 2 | 4  | 6  | 8  | 10 | 12 | 14 |
| 3 | 6  | 9  | 12 | 15 | 18 | 21 |
| 4 | 8  | 12 | 16 | 20 | 24 | 28 |
| 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 6 | 12 | 18 | 24 | 30 | 36 | 42 |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 |

|   |    |    |    |    |    |    |
|---|----|----|----|----|----|----|
| 5 | 10 | 15 | 20 | 25 | 30 | 35 |
| 6 | 12 | 18 | 24 | 30 | 36 | 42 |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 |

## Solution:

```
<!DOCTYPE html>
<html>
<body>
<?php
//echo "<pre style='text-align:center;'><h1
style='color:brown'>";
echo "<h1 style='color:red;text-
align:center;'>Counting Table from 1 to
7</h1>";
echo "<table bgcolor='brown'
align='center' style='font-size:25px;'
border='1'>";
for($i=1;$i<8;$i++)
{echo "<tr>";
for($j=1;$j<8;$j++)
{echo "<td>";
echo $i*$j. " ";
echo "</td>";
}
//echo "</br>";
echo "</tr>";
}
echo "</table>";
//echo "</pre>";
?>
</body>
</html>
```

## Output:

### Counting Table from 1 to 7

|   |   |    |    |    |    |    |
|---|---|----|----|----|----|----|
| 1 | 2 | 3  | 4  | 5  | 6  | 7  |
| 2 | 4 | 6  | 8  | 10 | 12 | 14 |
| 3 | 6 | 9  | 12 | 15 | 18 | 21 |
| 4 | 8 | 12 | 16 | 20 | 24 | 28 |