

Dr. Dieaa I. Nassr

Academic Year 2017/2018 – 2nd Semester

PHP Lab. 2nd Level.

Web Programming (comp-206)

Math. Dept., CS Division.

Key Answer PHP Lab#1

Q1) Write a PHP program that prints the block letter “B” in a 7 × 6 grid of stars like this:

```
*****
*      *
*      *
*****
*      *
*      *
*****
```

```
<?php
echo"<pre>\n";
echo "    *****    </br>\n";
echo "    *      *    </br>\n";
echo "    *      *    </br>\n";
echo "    *****    </br>\n";
echo "    *      *    </br>\n";
echo "    *      *    </br>\n";
echo "    *****    </br>\n";
echo"</pre>\n";
?>
```

**Q2) Determine which of the following is a valid variable name.
If invalid, explain why?**

- \$Xy (valid)
- T12_y (invalid)
- \$4ab (invalid)
- And (invalid)
- \$f(x) (invalid)

Q3) Write and run a PHP program that prints the sum, difference, product, quotient, and remainder of two integers. Initialize the integers with the values 50 and 30

```
<h1>I purpose to write the "echo statement" with different styles </br></h1>
<?php
$x=50;
$y=30;|
echo "$x+$y=", $x+$y,"<br>\n";
echo "$x-$y=" . $x-$y . "<br>\n";
echo "$x*$y=".(float)($x*$y). "<br>\n";
echo "$x/$y=",(float)($x/$y), "<br>\n";
echo "$x%$y=".( $x%$y). "<br>\n";
?>

<h1>I purpose to write the "print statement" with different styles </br></h1>
<?php
$x=50;
$y=30;
print "$x+$y=".$x+$y."<br>\n";
echo "$x-$y=" . ($x-$y) . "<br>\n";
echo "$x*$y=".(float)($x*$y). "<br>\n";
$div = $x/$y;
echo "$x/$y=$div<br>\n";
$rem=$x%$y;
echo "$x%$y=$rem<br>\n";
?>
```

Your result must be in HTML table, where the first row is colored with Blue.

```

<?php
$x=50;
$y=30;
$sum=$x+$y;
$dif=$x-$y;
$prod=$x*$y;
$div=$x/$y;
$rem=$x%$y;
echo "<table border =0.6 align >\n";
echo "<tr bgcolor='blue'> <td> x </td> <td> operator </td> <td>y</td> <td align='center'> result</td> </tr>\n";
echo "<tr> <td> $x </td> <td align='center'> + </td> <td> $y </td> <td align='center'> = $sum </td> </tr>\n";
echo "<tr> <td> $x </td> <td align='center'> - </td> <td> $y </td> <td align='center'> = $dif</td> </tr>\n";
echo "<tr> <td> $x </td> <td align='center'> * </td> <td> $y </td> <td align='center'> = $prod</td> </tr>\n";
echo "<tr> <td> $x </td> <td align='center'> / </td> <td> $y </td> <td align='center'> = $div</td> </tr>\n";
echo "<tr> <td> $x </td> <td align='center'> % </td> <td> $y </td> <td align='center'> = $rem</td> </tr>\n";
echo "</table>\n";
?>

```

Q5) Write a PHP program to display the sum of the series (using while-loop/ do-while-loop/ for-loop) into HTML table:

- $sumA = 1^2 + 2^2 + 3^2 + \dots + n^2$, (say n=10)
- $sumB = 1^2 + 3^2 + 5^2 + \dots + n^2$, (say n=8)
- $sumC = 1^2 - 2^2 + 3^2 - 4^2 + \dots + (-1)^{n+1}n^2$,(say n=9)
- $sumD = 2^3 - 4^3 + 6^3 - 8^3 + \dots + (-1)^{n/2+1}n^3$,(say n=6)

The HTML table looks like:

Sum	n	Value
sumA	10	...
sumB	8	...
...

```

<?php
$sumA=0; $sumB=0; $sumC=0; $sumD=0;
$nA=10; $nB=8; $nC=9; $nD=6;
for($i=1; $i<=$nA; $i++){
    $sumA+=$i*$i;
}
for($i=1; $i<=$nB; $i+=2){

```

```

    $sumB+=$i**2;
}

$sign=1;
for($i=1; $i<=$nC; $i++){
    $sumC+=$sign*$i**2;
    $sign*=-1;
}

$sign=1;
for($i=1; $i<=$nD; $i+=2){
    $sumD+=$sign*$i**3;
    $sign*=-1;
}

$x=0;$y=0; $sum=0;$dif=0;
echo "<table border =0.6 align width=400>\n";
echo "<tr bgcolor=#000000>\n
    <td> <font color=#FFFFFF> sum </font> </td>
    <td> <font color=#FFFFFF> n </font> </td>
    <td> <font color=#FFFFFF> Value </font> </td>
</tr>\n";

echo "<tr bgcolor=#F2F2F2>\n
    <td> <font color=#000000> sumA </font> </td>
    <td> <font color=#000000> $nA </font> </td>
    <td> <font color=#000000> $sumA </font> </td>
</tr>\n";

```

```
echo "<tr bgcolor=#F2F2F2>\n
    <td> <font color=#000000> sumB </font> </td>
    <td> <font color=#000000> $nB </font> </td>
    <td> <font color=#000000> $sumB </font> </td>
</tr>\n";
```

```
echo "<tr bgcolor=#F2F2F2>\n
    <td> <font color=#000000> sumC </font> </td>
    <td> <font color=#000000> $nC </font> </td>
    <td> <font color=#000000> $sumC </font> </td>
</tr>\n";
```

```
echo "<tr bgcolor=#F2F2F2>\n
    <td> <font color=#000000> sumD </font> </td>
    <td> <font color=#000000> $nD </font> </td>
    <td> <font color=#000000> $sumD </font> </td>
</tr>\n";
```

```
echo "</table>\n";
```

```
?>
```

sum	n	Value
sumA	10	385
sumB	8	84
sumC	9	45
sumD	6	99