

Module 1: PHP Basics, Arrays and conditional logic

Assignment Solution

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Assignment Solution

→ Write a PHP script to add, subtract, multiply and divide two variables and display the value.

Solution:

Declare three variables. For example \$a, \$b and \$c. The variable \$a and \$b holds the value. The variable \$c holds the resultant value.

To add the values use '+' arithmetic operator.

```
$c= $a+$b
```

For Subtraction use the arithmetic operator '-'

```
$c= $a-$b
```

For Multiplication use the arithmetic operator '*'

```
$c= $a*$b
```

For Division use the arithmetic operator '/'

```
$c= $a/$b
```

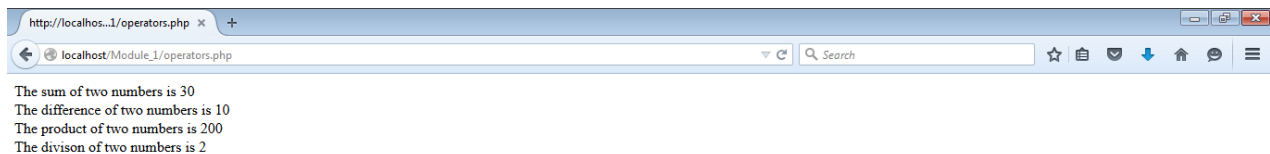
The screenshot shows a Notepad++ window titled "E:\xampp\htdocs\Module_1\operators.php - Notepad++". The script contains the following code:

```
1 <?php
2 $a = 20;
3 $b = 10;
4 $c= $a+$b;
5 echo "The sum of two numbers is $c";
6 echo "<br/>";
7 $c= $a-$b;
8 echo "The difference of two numbers is $c";
9 echo "<br/>";
10 $c= $a*$b;
11 echo "The product of two numbers is $c";
12 echo "<br/>";
13 $c=$a/$b;
14 echo "The divison of two numbers is $c";
15 echo "<br/>";
16 ?>
```

Below the code editor is an NppFTP window titled "NppFTP - Disconnected". It has a table with columns "Action", "Progress", and "File". The "Output" window at the bottom shows the message "15:30:40 [NppFTP] Everything initialized". The status bar at the bottom indicates "PHP Hypert length : 305 lines : 17", "Ln : 12 Col : 14 Sel : 0 | 0", "Dos\Windows", "ANSI", and "INS".

PHP Script:

```
<?php
$a = 20;
$b = 10;
$c= $a+$b;
echo "The sum of two numbers is $c";
echo "<br/>";
$c= $a-$b;
echo "The difference of two numbers is $c";
echo "<br/>";
$c= $a*$b;
echo "The product of two numbers is $c";
echo "<br/>";
$c=$a/$b;
echo "The divison of two numbers is $c";
echo "<br/>";
?>
```

Output:

→ Write a PHP script to concatenate three strings using concatenation operator

Solution:

Create four string variables \$string1,\$string2,\$string3 and \$result

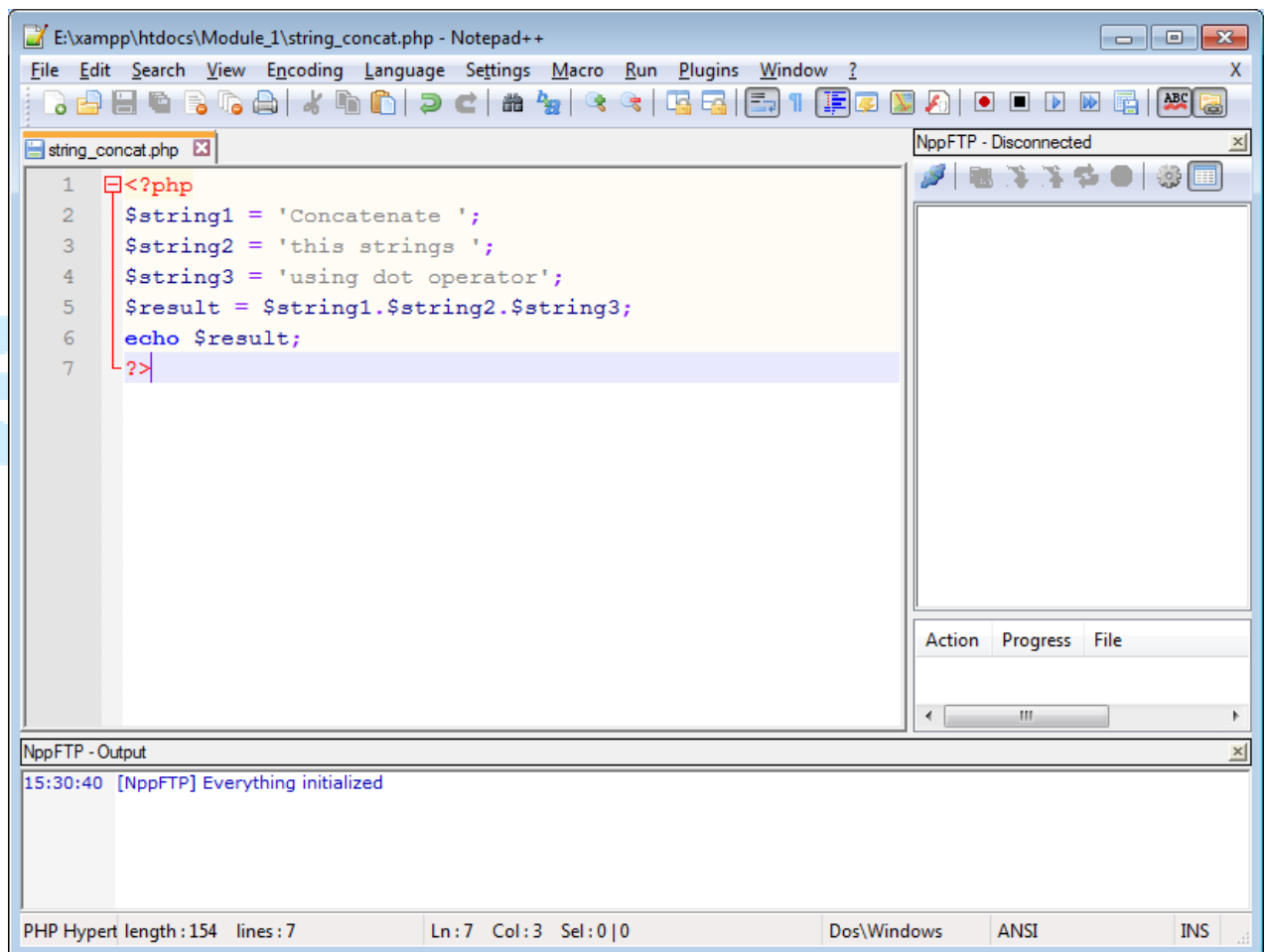
Assign string values to three variables and concatenate using (.) operator and stores the value in the fourth \$result variable.

```
$string1 = 'Concatenate ';
```

```
$string2 = 'this strings ';
```

```
$string3 = 'using dot operator';
```

```
$result = $string1.$string2.$string3;
```



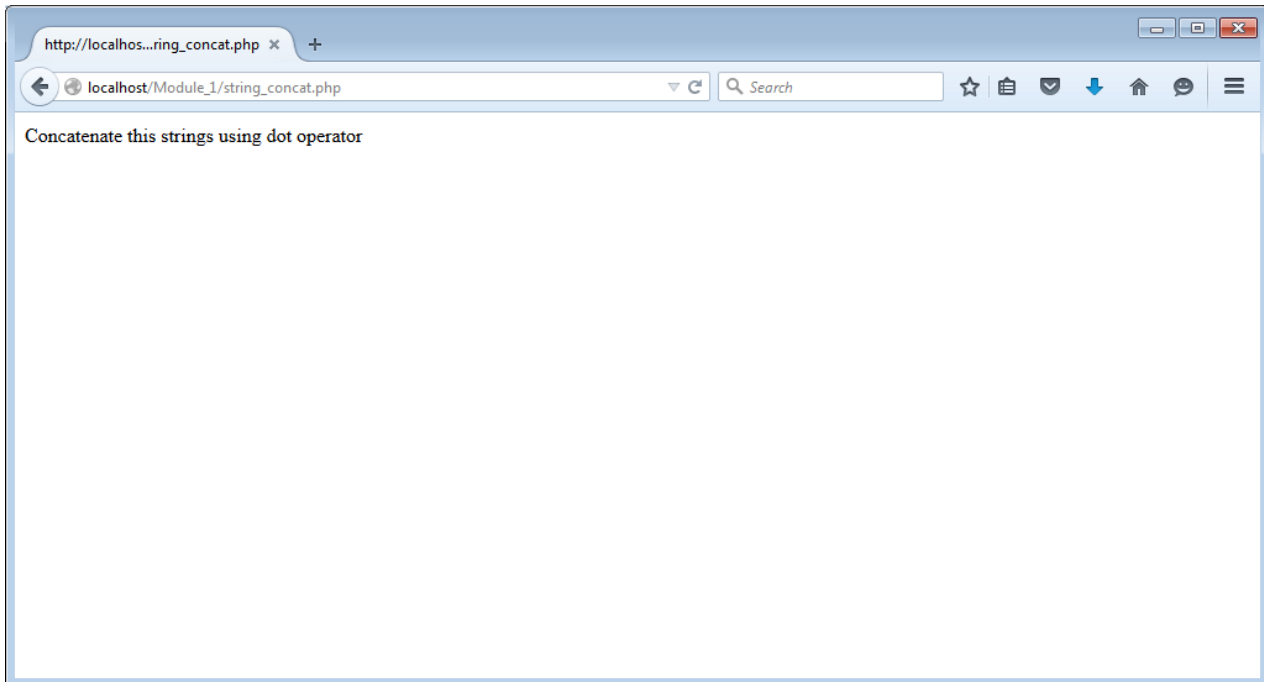
The screenshot shows a Notepad++ window titled 'E:\xampp\htdocs\Module_1\string_concat.php - Notepad++'. The code in the editor is as follows:

```
1 <?php
2 $string1 = 'Concatenate ';
3 $string2 = 'this strings ';
4 $string3 = 'using dot operator';
5 $result = $string1.$string2.$string3;
6 echo $result;
7 ?>
```

The output window at the bottom shows the message: '15:30:40 [NppFTP] Everything initialized'. The status bar at the bottom indicates 'PHP Hypert length : 154 lines : 7', 'Ln : 7 Col : 3 Sel : 0 | 0', 'Dos\Windows', 'ANSI', and 'INS'.

PHP Script:

```
<?php
$string1 = 'Concatenate ';
$string2 = 'this strings ';
$string3 = 'using dot operator';
$result = $string1.$string2.$string3;
echo $result;
?>
```

Output:

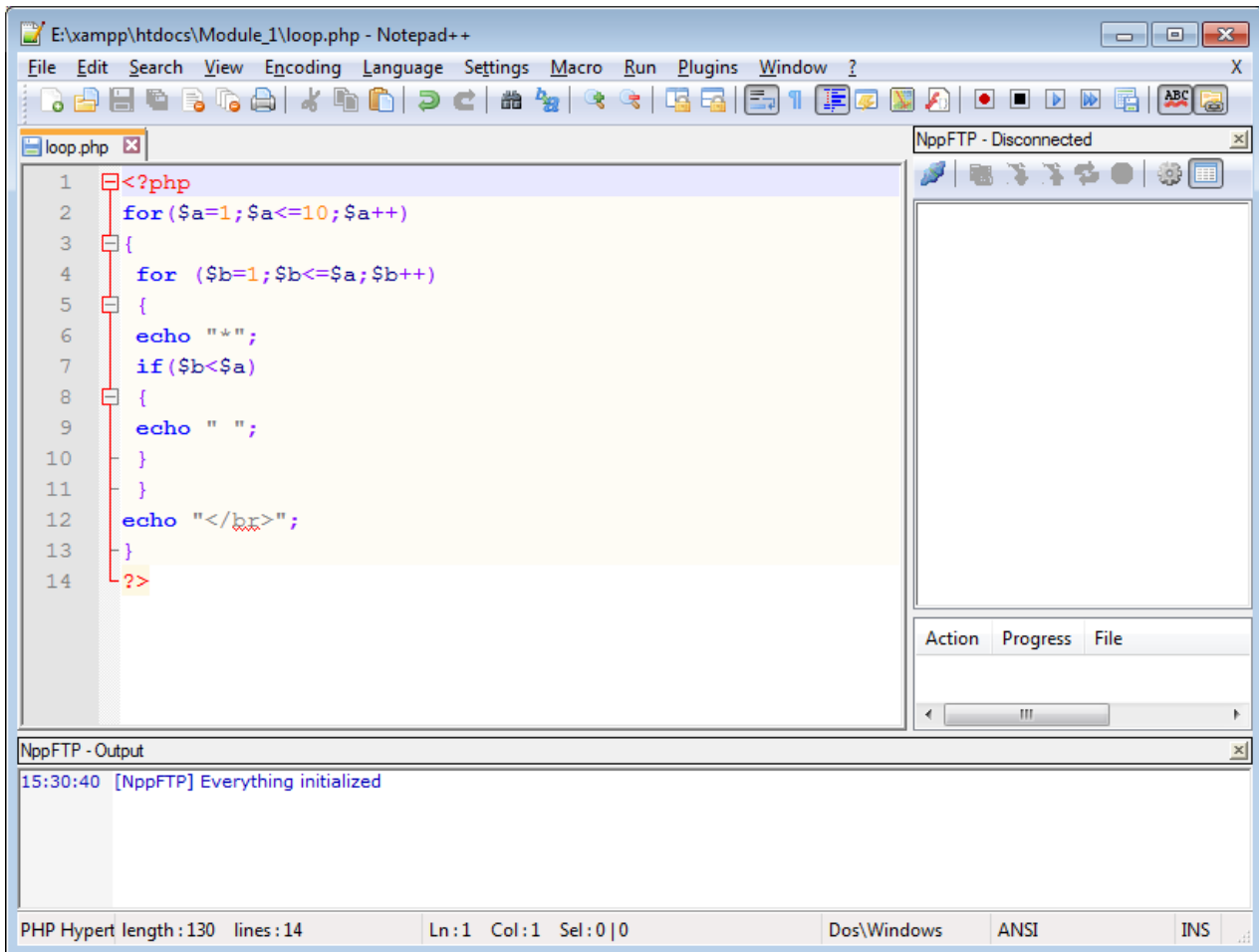
→ Write a PHP script to print "*" in the below format:

Format:

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

Solution:

Create two for loops. Inner for loop and outer for loop. Outer for loop should iterate for 10 times to print 10 "*". Inner for loop should iterate depending upon the outer loop condition.



```
1 <?php
2 for($a=1;$a<=10;$a++)
3 {
4     for ($b=1;$b<=$a;$b++)
5     {
6         echo "*";
7         if($b<$a)
8         {
9             echo " ";
10        }
11    }
12    echo "</br>";
13 }
14 ?>
```

NppFTP - Output

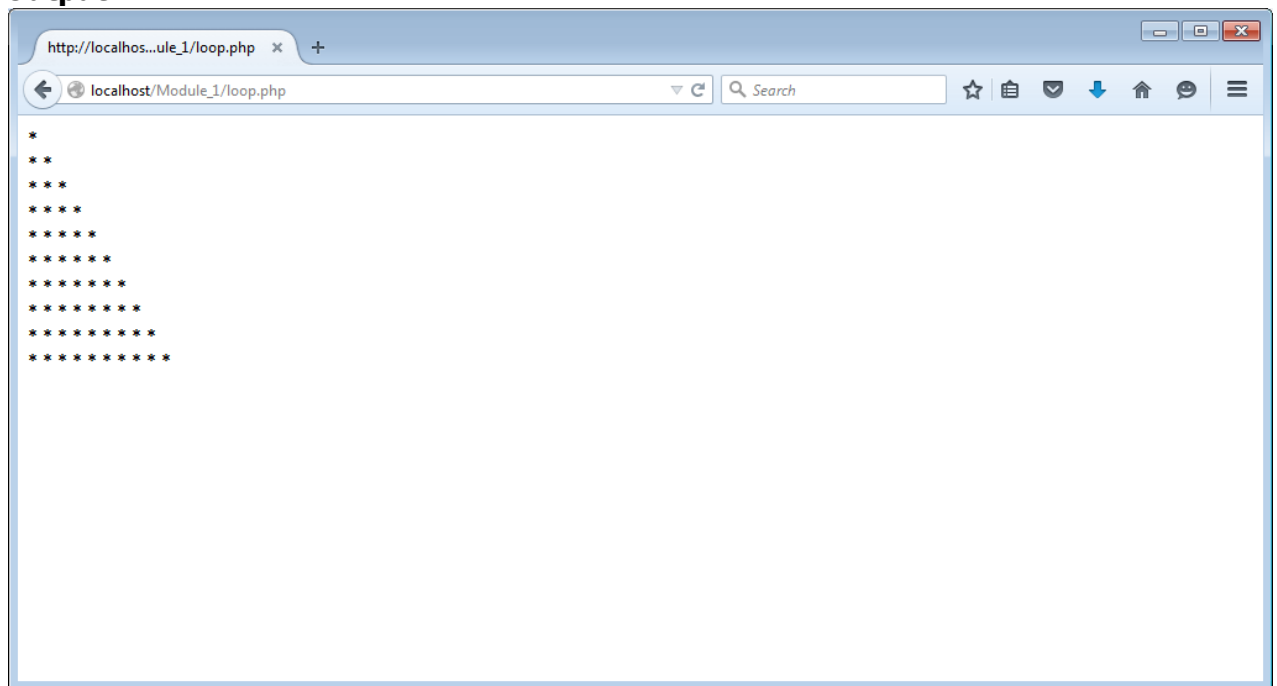
15:30:40 [NppFTP] Everything initialized

PHP Hypert length : 130 lines : 14 Ln : 1 Col : 1 Sel : 0 | 0 Dos\Windows ANSI INS

PHP Script:

```
<?php
for($a=1;$a<=10;$a++){
for ($b=1;$b<=$a;$b++)
{
echo "*";
if($b<$a)
{
echo " ";
}
}
echo "</br>";
}
?>
```

Output:



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