

PHP ASSIGNMENT

MODULE – 3(CORE PHP)

Submitted to :-

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Submitted by :-

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1. Write a PHP program to enter marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer, calculate percentage and grade by if else.

```
1.php x Prog_1.php x
<?php
// PHP Script to Calculate Total Marks of Student and Display Grade
// These are the marks of five subjects
$Science = 95;
$English = 85;
$Math = 74;
$Hindi = 64;
$Gujrati = 53;

$total = NULL;
$average = NULL;
$percentage = NULL;
$grade = NULL;

// It will calculate total, average, percentage, and grade
$total = $Science + $English + $Math + $Hindi + $Gujrati;
$average = $total / 5.0;
$percentage = ($total / 500.0) * 100;

if ($average >= 90)
    $grade = "A";
else if ($average >= 80 && $average < 90)
    $grade = "B";
else if ($average >= 70 && $average < 80)
    $grade = "C";
else if ($average >= 60 && $average < 70)
    $grade = "D";
else
    $grade = "E";

echo "Science=95". "<br>";
echo "English = 85". "<br>";
echo "Math = 74". "<br>";
echo "Hindi = 64". "<br>";
echo "Gujrati = 53". "<br>". "<br>";
// It will print the final output
echo "The Total marks    = " . $total . "/500\n". "<br>";
echo "The Average marks = " . $average . "\n". "<br>";
echo "The Percentage     = " . $percentage . "%\n". "<br>";
echo "The Grade          = " . $grade . "\n". "<br>";
?>
```

Output:-

```
localhost/Core_php_assignment/Prog_1.php

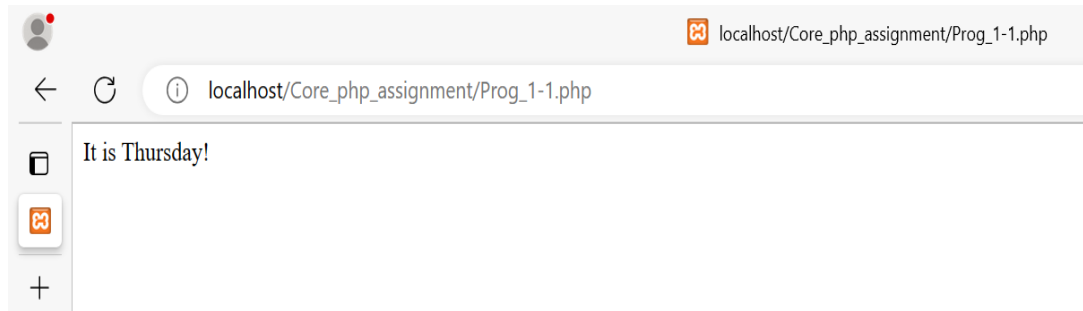
Science=95
English = 85
Math = 74
Hindi = 64
Gujrati = 53

The Total marks = 371/500
The Average marks = 74.2
The Percentage = 74.2%
The Grade = 'C'
```

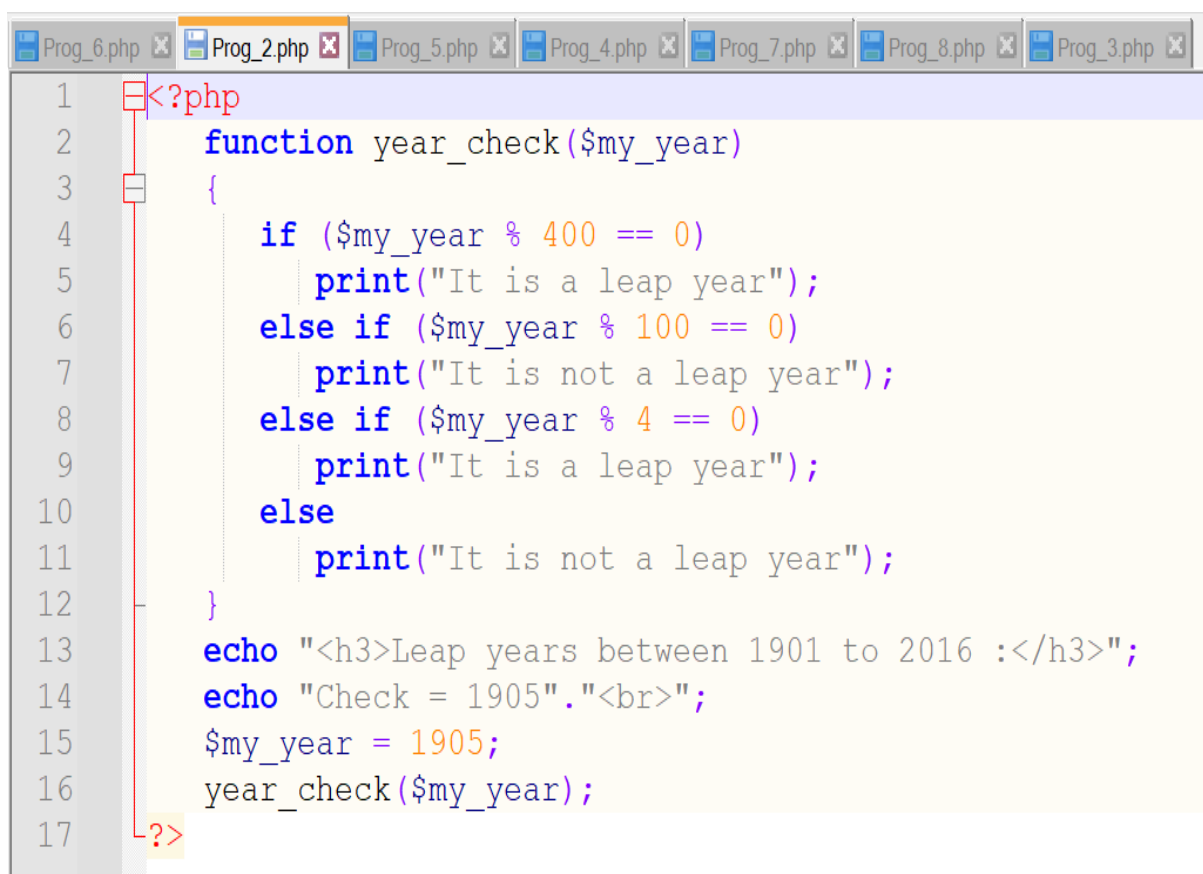
2.write a PHP program for find „Thursday“ in week using switch Function.

```
Prog_1-1.php Prog_1.php
1 <?php
2 $day = "4";
3
4 switch ($day) {
5     case "1":
6         echo "It is Monday!";
7         break;
8     case "2":
9         echo "It is today!";
10        break;
11    case "3":
12        echo "It is Wednesday!";
13        break;
14    case "4":
15        echo "It is Thursday!";
16        break;
17    case "5":
18        echo "It is Friday!";
19        break;
20    case "6":
21        echo "It is Saturday!";
22        break;
23    case "7":
24        echo "It is Sunday!";
25        break;
26    default:
27        echo "Invalid number!";
28 }
29 ?>
```

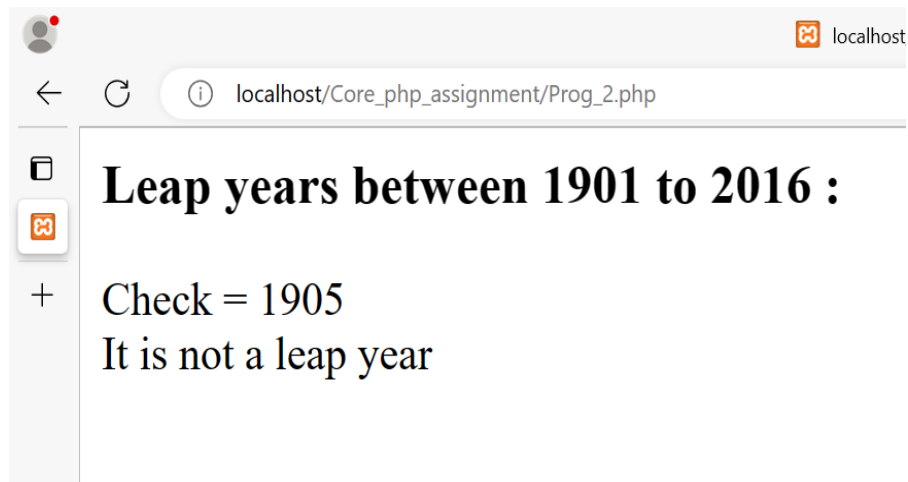
Output:-



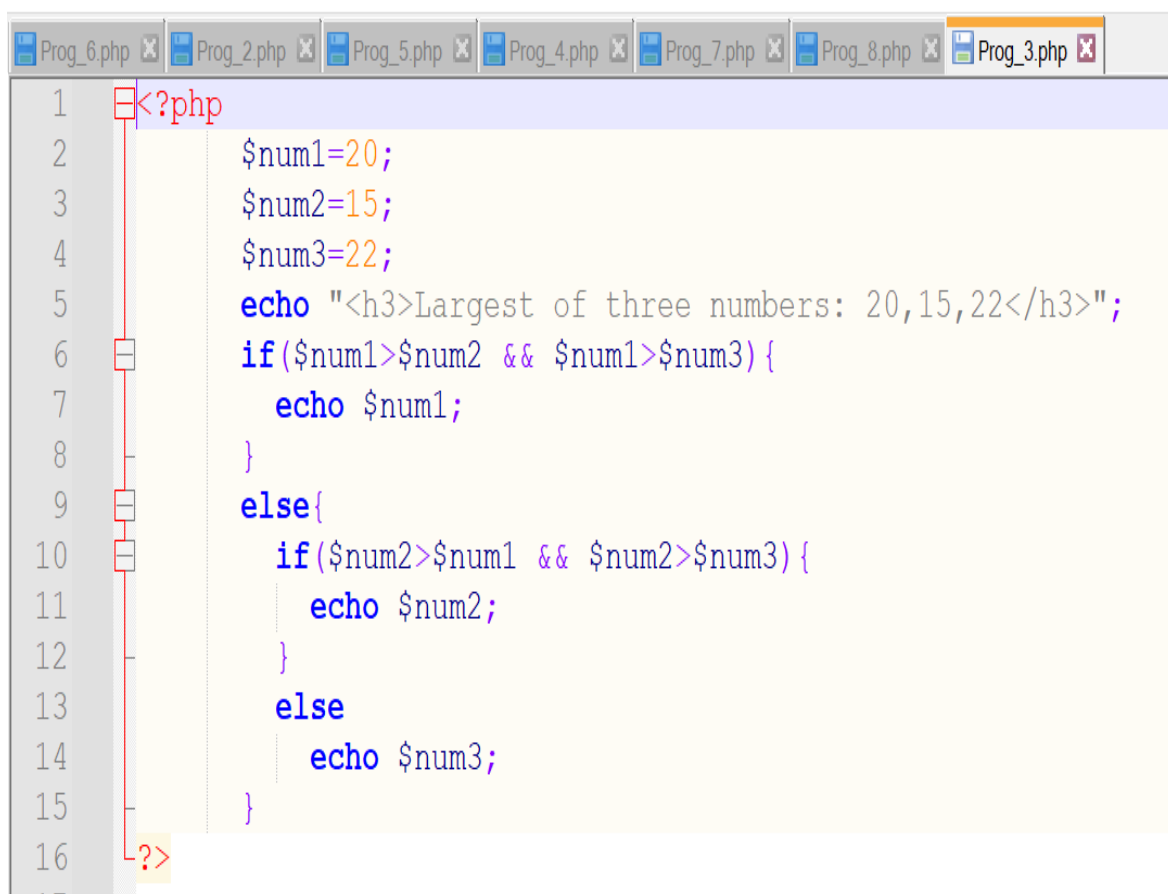
3. Write a PHP program to check Leap years between 1901 to 2016 Using nested if.



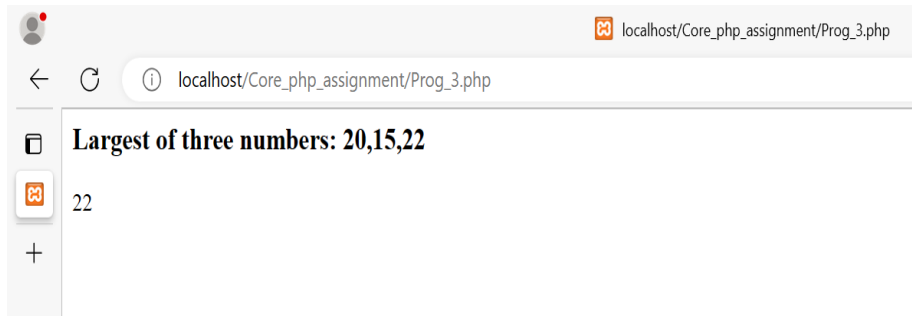
Output:-



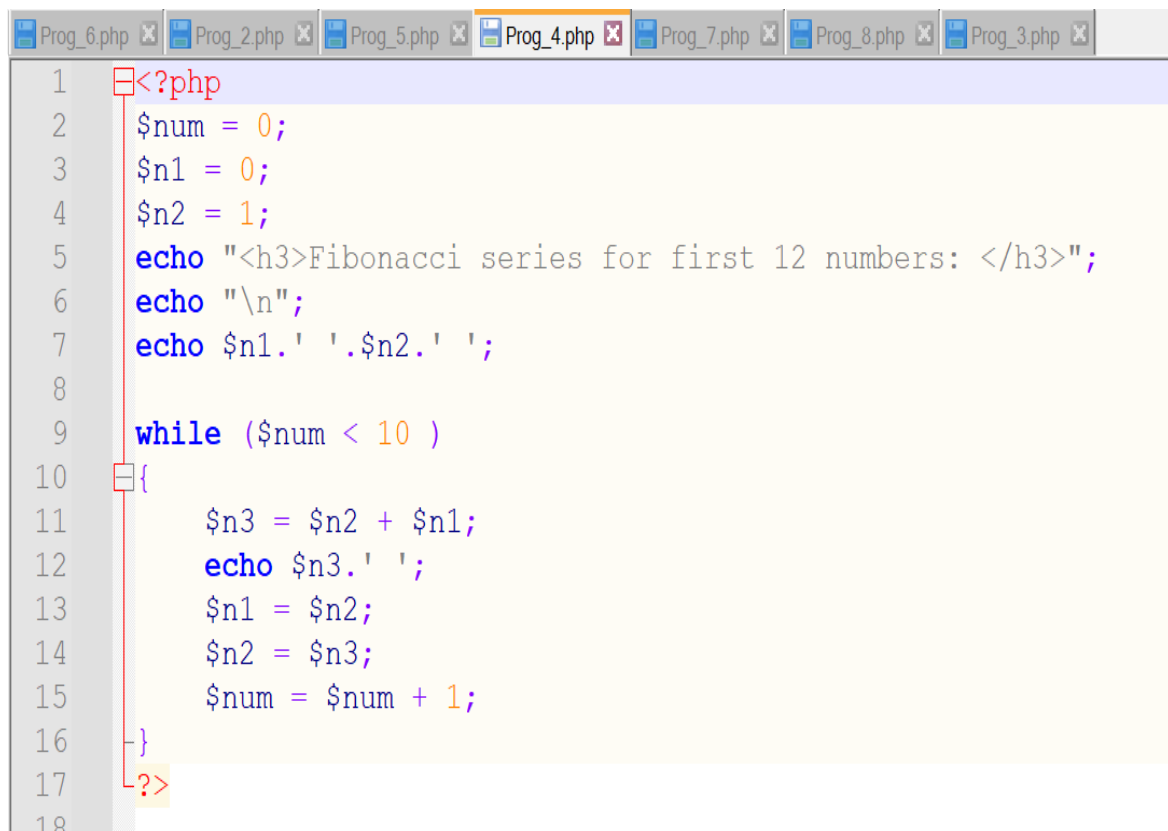
4. Write a PHP program to find the largest of three numbers using ternary Operator.



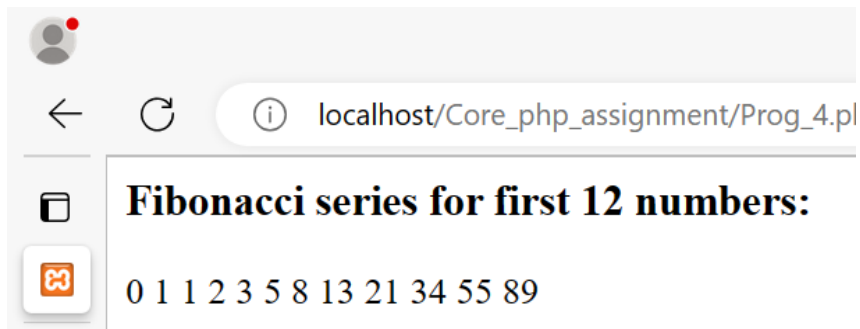
Output:-



5. Write a program in PHP to print Fibonacci series. 0, 1, 1, 2, 3, 5, 8, 13, 21, o 34



Output:-



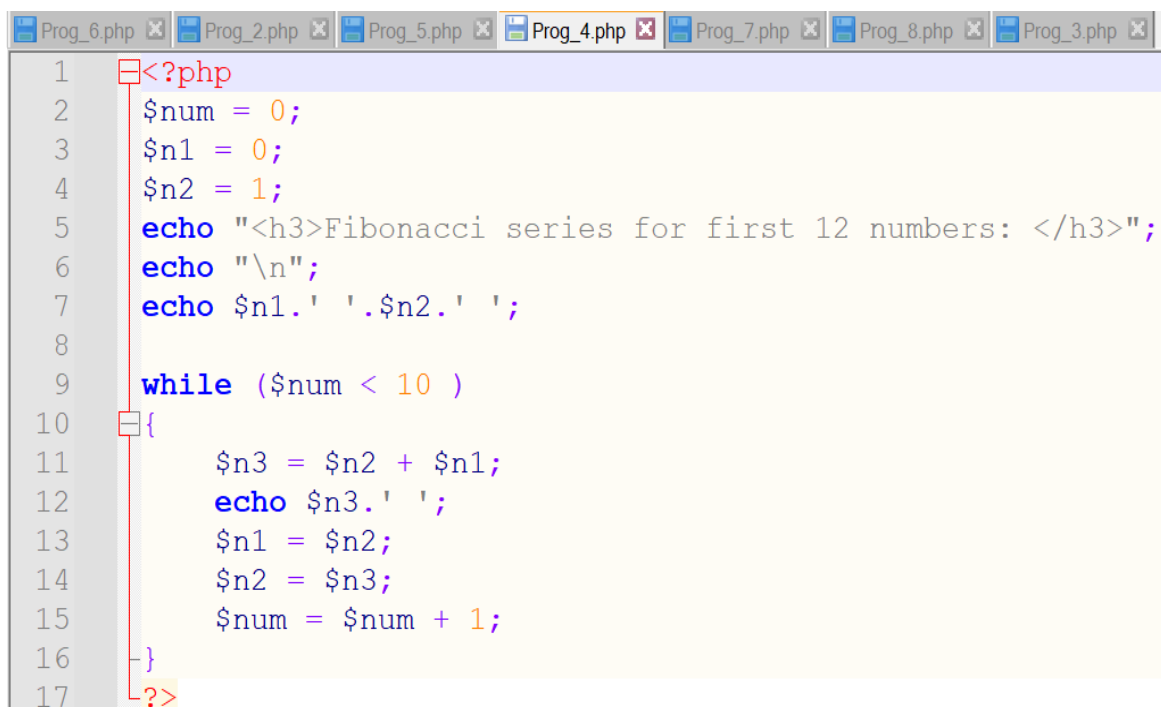
6. Write a program to find whether a number is Armstrong or not Write a program to print the below format :

5 9

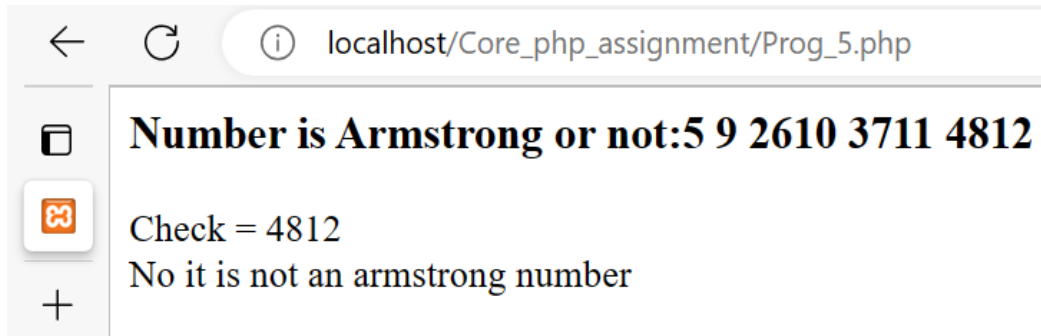
2610

3711

4812



Output:-



7. Write a program for this Pattern:

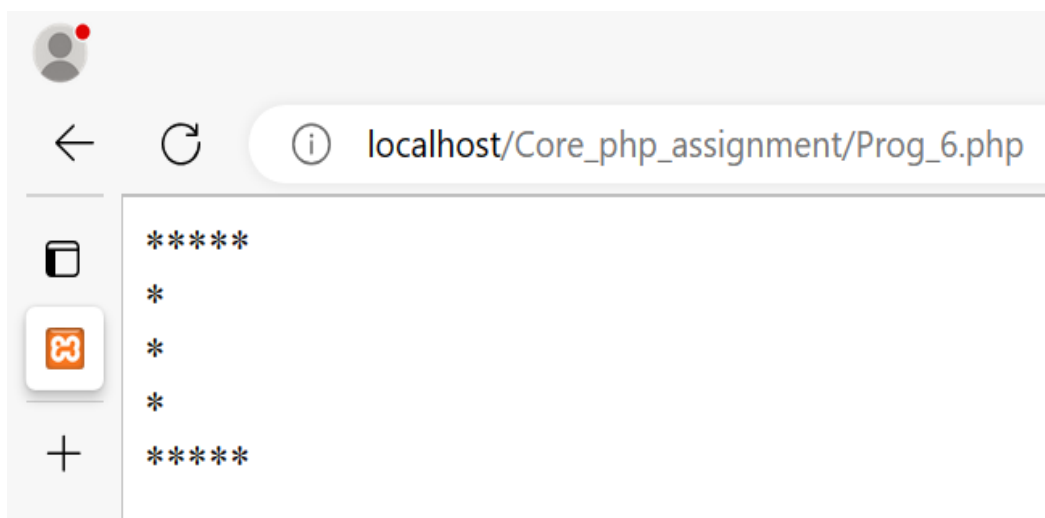
*

*

*

```
1 <?php
2 // hollow square pattern
3 $size = 5;
4 for($i = 0; $i < $size; $i++) {
5     // print column
6     for($j = 0; $j < $size; $j++) {
7         // print only star in first and last row
8         if($i === 0 || $i === $size - 1) {
9             echo "*";
10        }
11        else {
12            // print star only in first and last position row
13            if($j === 0 || $j === $size - 0) {
14                echo "*";
15            }
16            else {
17                // use   for space
18                echo "  ";
19            }
20        }
21    }
22    echo "<br>";
23 }
24 ?>
```

Output:-



8. What will be the values of \$a and \$b after the code below is executed? Explain your answer.

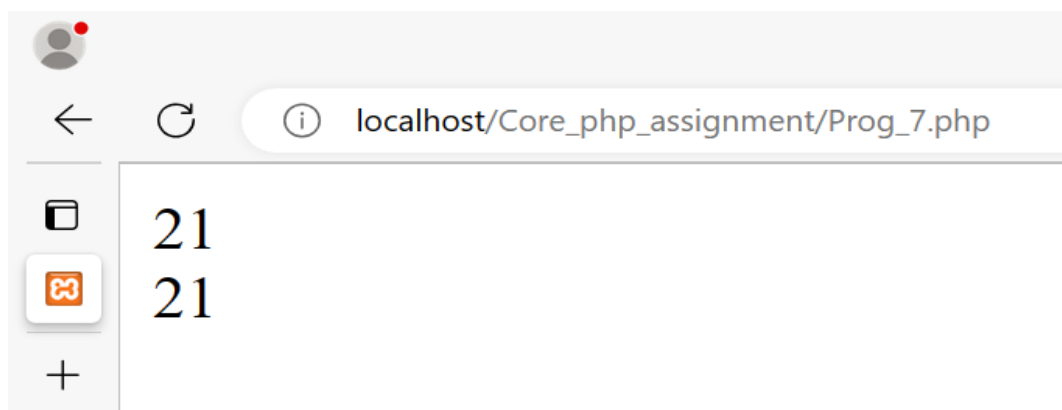
\$a = '1';

\$b = &\$a;

\$b = "2\$b";

```
1  <?php
2  $a = '1';
3  $b = &$a;
4  $b = "2$b";
5  {
6      echo "$a";
7      echo "<br>";
8      echo "$b";
9  }
10 ?>
```

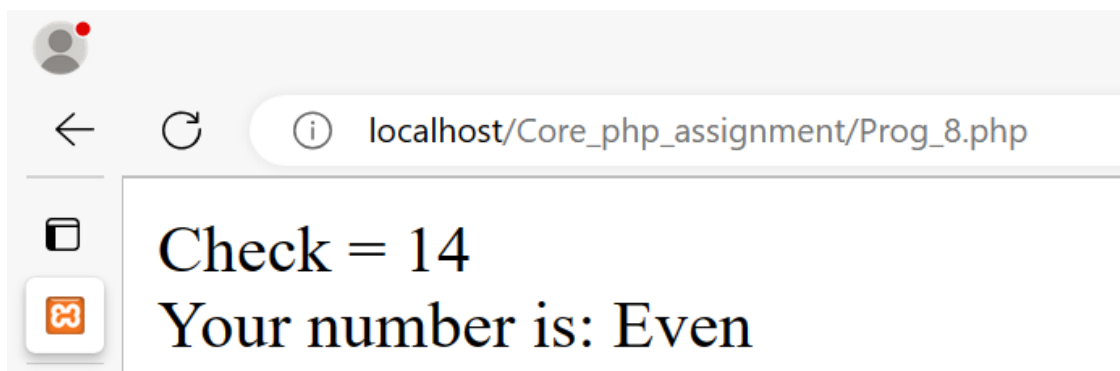
Output:-



9. How can you tell if a number is even or odd without using any Condition or loop?

```
1 <?php
2
3 $arr=array("0"=>"Even","1"=>"Odd");
4
5 $check=14;
6
7 echo "Check = 14". "<br>";
8 echo "Your number is: ".$arr[$check%2];
9
10 ?>
```

Output:-



The screenshot shows a web browser window with the address bar displaying 'localhost/Core_php_assignment/Prog_8.php'. The main content area of the browser shows the output of the PHP script: 'Check = 14' followed by a line break and 'Your number is: Even'. The browser interface includes a back button, a refresh button, and a user profile icon in the top left corner.

```
Check = 14
Your number is: Even
```

10. How can you declare the array (all type) in PHP? Explain with example Covert a JSON string to array.

```
1 <?php
2
3 // 1. Numeric array:
4
5 $Fruits = array("Pineapple", "Grapes", "Pear");
6
7 {
8     $jsonstring = '["Pineapple", "Grapes", "Pear"]';
9
10    $array = json_decode($jsonstring);
11
12    }
13
14    echo "1. Numeric array: " . "<br>";
15    echo $array[0] . "<br>";
16    echo $array[1] . "<br><br>";
17
18    // 2. Associative array:
19
20    $person = array("name" => "Janvi", "age" => 20, "city" => "Ahmedabad");
21    {
22        $jsonstring = '{"name": "Janvi", "age": 20, "city": "Ahmedabad"}';
23
24        $array = json_decode($jsonstring, true);
25    }
26
27    echo "2. Associative Array: " . "<br>";
28    echo $array["name"] . "<br>";
29    echo $array["age"] . "<br>";
30    echo $array["city"] . "<br><br>";
31
32    // 3. Multidimensional array:
33
34    $matrix = array( array(11, 12, 13),
35                     array(14, 15, 16),
36                     array(17, 18, 19));
37
38    {
39        $jsonstring = '[[11, 12, 13], [14, 15, 16], [17, 18, 19]]';
40
41        $array = json_decode($jsonstring, true);
42    }
43
44    echo "3. Multidimensional Array: " . "<br>";
45    echo $array[0][0] . "<br>";
46    echo $array[1][2];
47
48    ?>
```

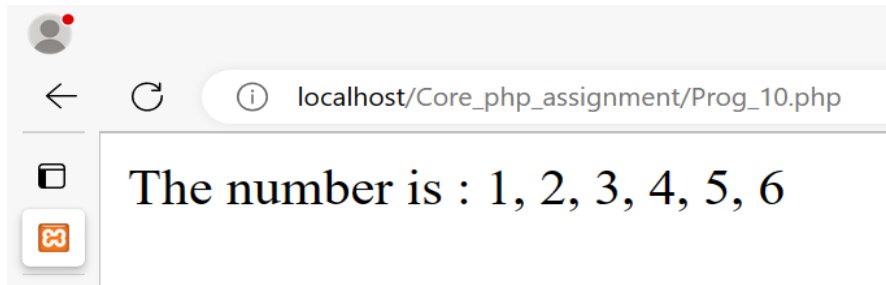
Output:-

```
1. Numeric array:  
Pineapple  
Grapes  
  
2. Associative Array:  
Janvi  
20  
Ahmedabad  
  
3. Multidimensional Array:  
11  
16
```

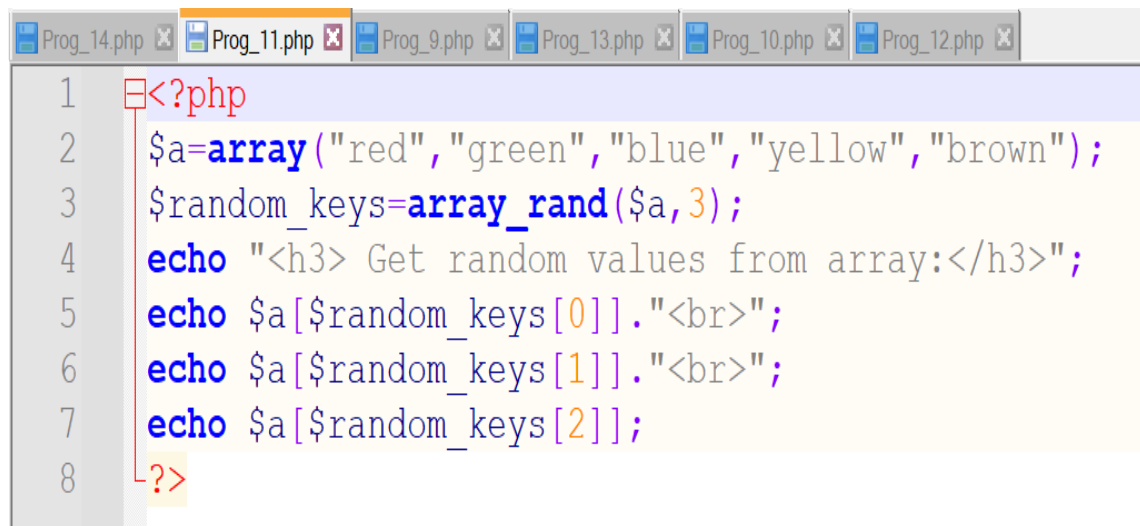
11. Write program to remove duplicate values from array

```
1 <?php  
2  
3 function removeDuplicates($arr)  
4 {  
5     $result = array();  
6     foreach ($arr as $value)  
7     {  
8         if (!in_array($value, $result))  
9         {  
10             $result[] = $value;  
11         }  
12     }  
13  
14     return $result;  
15 }  
16  
17 $arr= array(1,1,2,3,4,5,5,6);  
18 $result= removeDuplicates($arr);  
19  
20 echo "The number is : " . implode(' ', $result );  
21 ?>
```

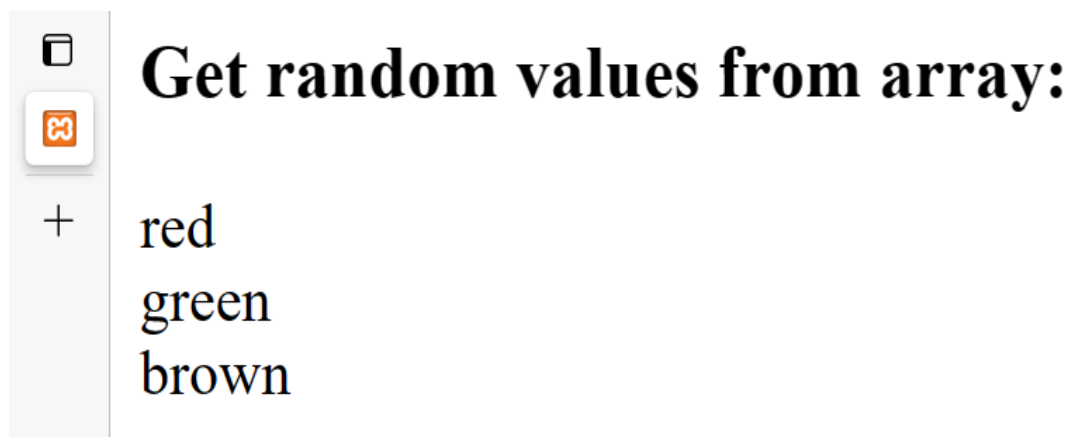
Output:-



12. Get random values from array.



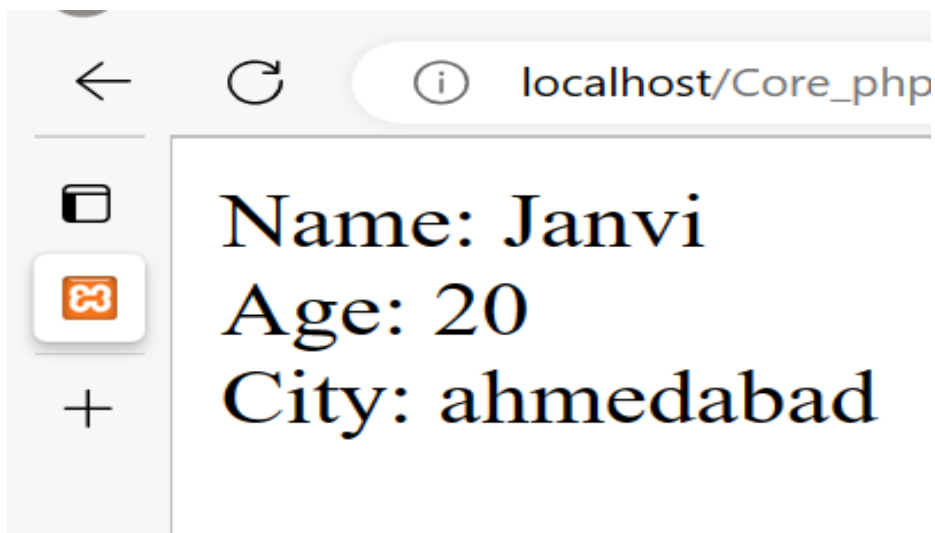
Output:-



13. Write a PHP script which decodes the following JSON string.

```
1 <?php
2 $jsonString = '{"name":"Janvi","age":"20","city":"ahmedabad"}';
3
4 $data = json_decode($jsonString);
5 if ($data === null && json_last_error() !== JSON_ERROR_NONE)
6 {
7     echo "Error decoding JSON: " . json_last_error_msg();
8 }
9 else{
10     echo "Name: " . $data->name . "<br>";
11     echo "Age: " . $data->age . "<br>";
12     echo "City: " . $data->city . "<br>";
13 }
14 ?>
```

Output:-



14. Use a for loop to total the contents of an integer array called numbers which has five elements. Store the result in an integer called total.

```
1 <?php
2
3 $numbers = array(5,10,15,20,25);
4 $total_number=0;
5
6 for ($i = 0; $i < count($numbers); $i++)
7 {
8     $total_number += $numbers[$i];
9 }
10 echo "Total_number : " . $total_number;
11 ?>
```

Output:-



15. Declare a Multi Dimensioned array of floats called balances having Three rows and five columns.

```
1 <?php
2
3 $balance = array(array(1.1, 2.1, 3.1, 4.1, 5.1),
4                  array(6.1, 7.1, 8.1, 9.1, 10.1),
5                  array(11.1, 12.1, 13.1, 14.1, 15.1));
6
7 for ($row = 0; $row < 3; $row++)
8 {
9     for ($col = 0; $col < 5; $col++)
10    {
11        echo $balance[$row][$col] . " ";
12    }
13    echo "<br>";
14 }
15
16 ?>
```

Output:-

```
localhost/Core_php_assignment/Prog_14.php

1.1 2.1 3.1 4.1 5.1
6.1 7.1 8.1 9.1 10.1
11.1 12.1 13.1 14.1 15.1
```