

PHP Programs with Output

1. Display 'Hello World' Message

```
<?php
echo "Hello World!";
?>
```

Output:

Hello World!

2. Global Keyword Example

```
<?php
$x = 10;
$y = 20;
function add() {
global $x, $y;
$y = $x + $y;
}
add();
echo $y;
?>
```

Output:

30

3. Student Mark Sheet Using Switch

```
<?php
$marks = 85;
switch (true) {
case ($marks >= 90): echo "Grade: A+"; break;
case ($marks >= 80): echo "Grade: A"; break;
default: echo "Grade: Fail";
}
?>
```

Output:

Grade: A

4. Sum of Given Number

```
<?php
$num = 1234;
$sum = 0;
while ($num > 0) {
$sum += $num % 10;
```

```
$num = (int)($num / 10);  
}  
echo "Sum of digits: $sum";  
?>
```

Output:

Sum of digits: 10

5. Prime Number Check

```
<?php  
$num = 29;  
$isPrime = true;  
if ($num < 2) { $isPrime = false; }  
else {  
    for ($i = 2; $i <= sqrt($num); $i++) {  
        if ($num % $i == 0) { $isPrime = false; break; }  
    }  
}  
echo $isPrime ? "Prime Number" : "Not a Prime Number";  
?>
```

Output:

Prime Number

6. Armstrong Number Check

```
<?php  
$num = 153;  
$sum = 0;  
temp = $num;  
while ($temp > 0) {  
    $sum += pow($temp % 10, 3);  
    $temp = (int)($temp / 10);  
}  
echo ($sum == $num) ? "Armstrong Number" : "Not an Armstrong Number";  
?>
```

Output:

Armstrong Number

7. Fibonacci Series

```
<?php  
$n = 10;  
$a = 0;  
$b = 1;  
echo "$a $b ";  
for ($i = 2; $i < $n; $i++) {
```

```
$c = $a + $b;
echo "$c ";
$a = $b;
$b = $c;
}
?>
```

Output:

0 1 1 2 3 5 8 13 21 34

8. Array Functions

```
<?php
$arr = array(4, 2, 8, 6);
sort($arr);
echo "Sorted Array: " . implode(", ", $arr) . "<br>";
?>
```

Output:

Sorted Array: 2, 4, 6, 8

9. Matrix Multiplication

```
<?php
$a = [[1, 2], [3, 4]];
$b = [[5, 6], [7, 8]];
for ($i = 0; $i < 2; $i++) {
    for ($j = 0; $j < 2; $j++) {
        $result[$i][$j] = 0;
        for ($k = 0; $k < 2; $k++) {
            $result[$i][$j] += $a[$i][$k] * $b[$k][$j];
        }
    }
    echo $result[$i][$j] . " ";
}
echo "<br>";
}
?>
```

Output:

19 22

43 50

10. Variable Handling Functions

```
<?php
$var = "Hello";
echo "Type: " . gettype($var) . "<br>";
$var = 10;
echo "Now Type: " . gettype($var) . "<br>";
```

?>

Output:

Type: string

Now Type: integer