

GANPAT UNIVERSITY
U.V. PATEL COLLEGE OF ENGINEERING B.Tech
6th Semester CE/IT
2CEIT6PE1: Web Technology
Practical-2

Aim: Perform basic programs of PHP using operator, condition, Loop, Date & Time functions.

Exercise:

1. Study the following functions & write a description for each: echo(), print(), phpinfo(), define(), var_dump(), date(), Time()

CODE :

```
<?php
echo "21012011074 <br>";
echo "This is echo function<br>";
// this function is used to output one or more strings

print("This is print function<br>");
// this function is used to output one or more strings

// phpinfo()
// this function is used to output the information about the PHP configuration

define("GREETING", "Welcome Gurupatel<br>");
echo GREETING;
// this function is used to define a constant

$x = 5985;
var_dump($x);
// this function is used to display structured information about one or more variables

echo "<br>Today is " . date("Y/m/d") . "<br>";
// this function is used to format a local time/date

echo "The time is " . date("h:i:sa") . " <br>";
// this function is used to format a local time/date

echo "The time is " . time() . " <br>";
// this function is used to return the current time in seconds
?>
```

OUTPUT:

```
21012011074
This is echo function
This is print function
Welcome Gurupatel
int(5985)
Today is 2024/02/13
The time is 03:17:34am
The time is 1707790654
```

2. Demonstrate different ways to write a PHP code. 1. Without any HTML markups
 2. Embedding HTML markups in PHP code
 3. Embedding PHP code in HTML

CODE :

```
<!-- Without any HTML markups -->
<?php
// without any HTML markups
echo "21012011074 <br>";
$var = "This is PHP code without any HTML markups";
echo nl2br("$var\n");
echo "This is echo function";
?>

<!-- 2. Embedding HTML markups in PHP code -->
<?php
// Embedding HTML markups in PHP code
echo "<h1>This is echo function</h1>";
?>

<!-- 3. Embedding PHP code in HTML -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>PHP EMMBEDDE IN HTML</title>
</head>
<body>
  <?php
    echo "This is echo function<br>";
    // this function is used to output one or more strings
    echo "<h1 style='color: red'>This is echo function</h1>";
  ?>
</body>
</html>
```

OUTPUT:

21012011074
This is PHP code without any HTML markups
This is echo function

This is echo function

This is echo function

This is echo function

3. Write a program that displays a different message based on time of day. [Note: For example page should display “Good Morning” if it is accessed in the morning.]

CODE :

```
<?php
// Get the current hour
echo "21012011074 <br>";
$current_hour = date('G');
// cout<< date('G');
    echo date('G')."<br>";

// Determine the part of the day based on the current hour
if ($current_hour < 12) {
    echo "Good Morning";
} elseif ($current_hour < 18) {
```

```
    echo "Good Afternoon";  
} else {  
    echo "Good Evening";  
}  
?>
```

OUTPUT:

21012011074
3
Good Morning

4. Write a PHP function daysInMonth() that takes a month (between 1 and 12) as a parameter and returns the number of days in that month in a non-leap year. [For example daysInMonth(6) should return 30, because June has 30 days.]

CODE :

```
<?php  
echo "21012011074 <br>";  
function daysInMonth($month) {  
    // Array of days in each month  
    $days_in_month = [31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31];  
  
    // Return the number of days in the given month  
    return $days_in_month[$month - 1];  
}  
  
// Test the function  
echo daysInMonth(6); // Outputs: 30  
?>
```

OUTPUT:

21012011074
30

5. Write a PHP program to make the sum of first 100 odd numbers.

CODE:

```
<?php
echo "21012011074 <br>";
$sum=0;
$count=0;
$i=1;
while($count!=100){
    if($i%2!=0){
        $sum+=$i;
        $count++;
    }
    $i++;
}
echo $sum;
?>
```

OUTPUT:

21012011074
10000

6. Write a PHP program to list out Prime numbers in given range.

CODE :

```
<!-- let range is 1 to 100 -->
<?php
echo "21012011074 <br>";
$start=2;
$end=100;
for($i=$start;$i<=$end;$i++){
    $count=0;
    for($j=1;$j<=$i;$j++){
        if($i%$j==0){
            $count++;
        }
    }
}
```

```
        if($count==2){  
            echo $i." ";  
        }  
    }  
    ?>
```

OUTPUT :

21012011074
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

7. Write a PHP program to print fibonacci series with and without using recursion and check which method is efficient.

[Note: microtime() function is an inbuilt function in PHP which is used to return the current Unix timestamp with microseconds.]

CODE :

```
<?php  
echo "21012011074 <br>";  
function wihtoutRecursion($n){  
    $a = 1;  
    $b = 1;  
    echo $a." ".$b." ";  
    for($i=2;$i<=$n;$i++){  
        $c = $a+$b;  
        echo $c." ";  
        $a = $b;  
        $b = $c;  
    }  
}  
function withRecursion($n){  
    if($n==0 || $n==1){  
        return 1;  
    }  
    else{  
        return (withRecursion($n-1)+withRecursion($n-2));  
    }  
}
```

```
}

$start = microtime(true);
wihtoutRecursion(8);
$end = microtime(true);
echo "<br>Time taken without recursion: " . ($end - $start);
$time_without_recursion = $end - $start;
echo "<br>";
$start = microtime(true);
for($i=0;$i<8;$i++){
    echo withRecursion($i)." ";
}
$end = microtime(true);
echo "<br>Time taken with recursion: " . ($end - $start);
$time_with_recursion = $end - $start;
echo "<br>";

if($time_without_recursion < $time_with_recursion){
    echo "Without recursion is efficient";
}
else{
    echo "With recursion is efficient";
}
?>
```

OUTPUT :

```
21012011074
1 1 2 3 5 8 13 21
Time taken without recursion: 1.6927719116211E-5
1 1 2 3 5 8 13 21
Time taken with recursion: 3.4093856811523E-5
Without recursion is efficient
```

8. Write a PHP program to enter the numbers of rows and columns and in the next page generate the table with given rows and cols.

CODE :

P2_8.Php :

```
<!DOCTYPE html>
<html>
  <head>
    <title>PHP program to generate table with given rows and cols</title>
  </head>
  <body>
    <form action="p2_8_1.php" method="post">
      <label for="rows">Enter the number of rows:</label>
      <input type="number" name="rows" id="rows" required>
      <br>
      <label for="cols">Enter the number of columns:</label>
      <input type="number" name="cols" id="cols" required>
      <br>
      <input type="submit" value="Generate Table">
    </form>
  </body>
</html>
```

P2_8_1.php :

```
<?php
echo "21012011074 <br>";
$rows = $_POST['rows'];
$cols = $_POST['cols'];
echo "<table border='1'>";
for($i=0;$i<$rows;$i++){
  echo "<tr>";
  for($j=0;$j<$cols;$j++){
    echo "<td>Row $i, Col $j</td>";
  }
  echo "</tr>";
}
echo "</table>";
?>
```


OUTPUT :

Enter the number of rows:

Enter the number of columns:

21012011074

Row 0, Col 0	Row 0, Col 1	Row 0, Col 2
Row 1, Col 0	Row 1, Col 1	Row 1, Col 2

9. Write a PHP program to print table of a number.

[For example: 9 * 1 = 9
9 * 2 = 18]

CODE :

```
<?php
echo "21012011074 <br>";
$no =9;
for($i=1;$i<=10;$i++){
    // echo "".$no." * ".$i." = ".$no*$i."<br>";
    echo "$no * $i = ".$no*$i."<br>";
}
?>
```

OUTPUT :

```
21012011074
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90
```