**PHP Assignment**

**MODULE – 3(Core PHP)**

**• Write a PHP program to enter marks of five subjects Physics, Chemistry,**

**Biology, Mathematics and Computer, calculate percentage and grade by if**

**else write a PHP program for find „Thursday‟ in week using switch**

**Function**

**ans-**

<?php

$day = "Thursday";

switch ($day) {

case "Monday":

echo "Today is Monday";

break;

case "Tuesday":

echo "Today is Tuesday";

break;

case "Wednesday":

echo "Today is Wednesday";

break;

case "Thursday":

echo "Today is Thursday";

break;

case "Friday":

echo "Today is Friday";

break;

default:

echo "It's the weekend!";

break;

}

?>

**• Write a PHP program to check Leap years between 1901 to 2016 Using**

**nested if.**

**ans-**

<?php

header('Content-type: text/plain');

for ($year = 1901; $year <= 2016; $year++) {

if (($year % 4 == 0 && $year % 100 != 0) || ($year % 400 == 0)) {

echo "$year is a Leap Year\n";

}

}

?>

**• Write a PHP program to find the largest of three numbers using ternary**

**Operator.**

**ans-**

<?php

$a = 5;

$b = 10;

$c = 8;

$largest = ($a > $b) ? (($a > $c) ? $a : $c) : (($b > $c) ? $b : $c);

echo "The largest number is: $largest";

?>

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

**o 34**

**ans-**

<?php

$n = 10;

$fibonacci = [0, 1];

for ($i = 2; $i < $n; $i++) {

$fibonacci[] = $fibonacci[$i - 1] + $fibonacci[$i - 2];

}

echo implode(", ", $fibonacci);

?>

**• 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**

**ans-**

<?php

function isArmstrong($num) {

$sum = 0;

$temp = $num;

while ($temp != 0) {

$digit = $temp % 10;

$sum += $digit \* $digit \* $digit;

$temp = intval($temp / 10);

}

return ($sum == $num);

}

$number = 369;

if (isArmstrong($number)) {

echo "$number is an Armstrong number";

} else {

echo "$number is not an Armstrong number";

}

?>

**• Write a program for this Pattern:**

**\*\*\*\*\***

**\***

**\***

**\***

**\*\*\*\*\***

**ans-**

<?php

header('Content-type: text/plain');

// Function to print the pattern

function printPattern() {

// Loop for each row

for ($i = 1; $i <= 5; $i++) {

// If it is the first or last row, print 5 stars

if ($i == 1 || $i == 5) {

echo "\*\*\*\*\*\n"; // print 5 stars

} else {

// For other rows, print a single star

echo "\*\n"; // print 1 star

}

}

}

// Call the function to print the pattern

printPattern();

?>

**• 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";**

**ans-**

<?php

header('Content-type: text/plain');

echo $a = '1'."\n";

echo $b = &$a."\n";

echo $b = "2$b"."\n";

// Explanation:

// $a is initialized as '1'.

// $b is a reference to $a, so both $a and $b point to the same value.

// When $b is set to "2$b", $b becomes "21" and so does $a because $b is a reference to $a.

?>

**• How can you tell if a number is even or odd without using any Condition or**

**loop?**

**ans-**

<?php

$num = 10; // Change this value to any number

echo ($num & 1) ? "Odd" : "Even";

?>

**• How can you declare the array (all type) in PHP? Explain with example**

**Covert a JSON string to array.**

**ans-**

<?php

// Indexed array

$array1 = array(1, 2, 3);

// Associative array

$array2 = array("name" => "Zainab", "age" => 21);

// Multidimensional array

$array3 = array(

array(1, 2, 3),

array(4, 5, 6),

array(7, 8, 9)

);

$json = '{"name": "Zainab", "age": 21, "city": "Ahmedabad"}';

$array = json\_decode($json, true);

print\_r($array);

/\* Output the arrays

//echo "Indexed Array:\n";

print\_r($array1);

echo "\nAssociative Array:\n";

print\_r($array2);

echo "\nMultidimensional Array:\n";

print\_r($array3);

\*/

?>

**• Write program to remove duplicate values from array**

**ans-**

<?php

$array = array(1, 2, 2, 3, 4, 4, 5, 7, 8, 8, 10,10);

$result = array\_unique($array);

print\_r($result);

?>

**• Get random values from array**

**ans-**

<?php

$array = array(1, 2, 3, 4, 5, 6, 7, 8, 9, 10);

$randomValue = $array[array\_rand($array)];

echo $randomValue;

?>

**• Write a PHP script which decodes the following JSON string.**

**ans-**

<?php

$json = '{"name": "priya", "age": 23, "city": "Ahmedabad"}';

$array = json\_decode($json, true);

print\_r($array);

?>

**• 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.**

**ans-**

<?php

$numbers = array(1, 2, 3, 4, 5, 6, 7, 8, 9, 10);

$total = 0;

for ($i = 0; $i < count($numbers); $i++) {

$total += $numbers[$i];

}

echo "Total: $total";

?>

**• Declare a Multi Dimensioned array of floats called balances having Three**

**rows and five columns**

**ans-**

<?php

// Declaring a 3x5 multidimensional array of floats

$balances = array(

array(1.1, 2.2, 3.3, 4.4, 5.5), // Row 1

array(6.6, 7.7, 8.8, 9.9, 10.10), // Row 2

array(11.11, 12.12, 13.13, 14.14, 15.15) // Row 3

);

// Display the multidimensional array

print\_r($balances);

?>