**MODULE – 3(Core PHP)**

1.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.

Marks.php

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Calculate parsentage and grade</title>

</head>

<body>

    <h1>Enter marks five subject</h1>

        <form method="post" action="">

        <label for="physics">Physics:</label>

        <input type="number"name="physics" required><br>

        <br>

        <label for="chemistry">Chemistry:</label>

        <input type="number"name="chemistry" required><br>

        <br>

        <label for="biology">Biology:</label>

        <input type="number"name="biology" required><br>

        <br>

        <label for="mathematics">Mathematics:</label>

        <input type="number"name="mathematics" required><br>

        <br>

        <label for="computer">Computer:</label>

        <input type="number"name="computer" required><br>

        <br>

        <input type="submit"value="submit" name="submit">

</form>

</body>

</html>

<?php

if(isset($\_POST["submit"])){

    //echo"</pre>";print\_r($\_POST);exit;

    $physics=$\_POST['physics'];

    $chemistry=$\_POST['chemistry'];

    $biology=$\_POST['biology'];

    $mathematics=$\_POST['mathematics'];

    $computer=$\_POST['computer'];

    $Totalmarks=$physics+$chemistry+$biology+$mathematics+$computer;

    $percentage=($Totalmarks/500)\*100;

    echo"<h2>result</h2>";

    echo"physics: $physics<br>";

    echo"chemistry: $chemistry<br>";

    echo"biology: $biology<br>";

    echo"mathematics: $mathematics<br>";

    echo"computer: $computer<br>";

    echo"Totalmarks: $Totalmarks<br>";

    echo"percentage: $percentage<br>";

   if($percentage>=80){

    echo"Grade: 1st Devision";

   }

   elseif($percentage>=60){

    echo"Grade: 2nd Devision";

}

   elseif($percentage>=40){

    echo"Grade: 3rd Devision";

   }

   else{

    echo"Grade: Fail";

   }

}

?>

Output

**result**

physics: 70  
chemistry: 65  
biology: 68  
mathematics: 65  
computer: 80  
Totalmarks: 348  
percentage: 69.6  
Grade: 2nd Devision

Day.php

<?php

function findthursday($week){

switch($week){

case 'Monday':

echo"Thursday is not in the week";

break;

case 'Tuesday':

echo"Thursday is not in the week";

break;

case 'Wednesday':

echo"Thursday is not in the week";

break;

case 'Thursday':

echo "Thursday is prasent in the week";

break;

case 'Friday':

echo "Thrusday is not in the week";

break;

default:

echo "Not vailed";

break;

}

}

$week='Thursday';

findthursday($week);

?>

Output

Thursday is prasent in the week

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

<?php

$startyear=1901;

$endyear=2016;

echo"Leap year between $startyear and $endyear:<br>";

for($year=$startyear;$year<=$endyear;$year++){

    if($year%4==0){

        if($year%100==0){

            if($year%400){

                echo $year."<br>";

            }

        }else{

            echo $year."<br>";

        }

        }

    }

?>

Output

Leap year between 1901 and 2016:  
1904  
1908  
1912  
1916  
1920  
1924  
1928  
1932  
1936  
1940  
1944  
1948  
1952  
1956  
1960  
1964  
1968  
1972  
1976  
1980  
1984  
1988  
1992  
1996  
2004  
2008  
2012  
2016

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

<?php

$a=10;

$b=20;

$c=30;

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

echo"The largest number is:$largest";

?>

Output

The largest number is: 30

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

<?php

$limit =10;

$n1=0;

$n2=1;

$x=0;

for($i=0;$i<$limit;$i++){

    echo $n1;

    $n1=$n1+$n2;

    $n2=$x;

    $x=$n1;

    echo"</br>";

}

?>

Output

0  
1  
1  
2  
3  
5  
8  
13  
21  
34

5. 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.

<!DOCTYPE html>

<html lang="en">

<head>

   <meta charset="UTF-8">

   <meta name="viewport" content="width=device-width, initial-scale=1.0">

   <title>Document</title>

</head>

<body>

<div class="container">

<div class="col-xs-12 col-md-6">

   <form action="" method="post">

   <label>Aramstrong Number</label>

   <input type="number" name="number" value="aramstrong\_number"><br><br>

   <input type="submit" name="submit" value="submit">

   </div>

   </div>

   </form>

<?php

if(isset($\_POST['submit'])){

 $number=$\_POST['number'];

 $total=0;

 $x=$number;

 while($x>0){

    $rem=$x%10;

    $total=$total+$rem\*$rem\*$rem;

    $x=$x/10;

 }

 if($number == $total)

 {

    echo"yes it is Aramstrong number";

 }

 else{

    echo"No it is hot an aramstrong number";

 }

}

?>

</body>

</html>

Output

6. Write a program for this Pattern: \*\*\*\*\*

\*

\*

\*

\*\*\*\*\*

<?php

function pattern(){

    echo"\*\*\*\*\*<br>";

    for($i=0;$i<=3;$i++){

        echo"\*<br>";

    }

    echo"\*\*\*\*\*<br>";

}

pattern();

?>

Output

\*\*\*\*\*

\*

\*

\*

\*\*\*\*\*

7. 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";

<?php

$a='1';

$b=&$a;

$b="2$b";

echo"$a";

echo"</br>";

echo"$b";

?>

Output

21  
21

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

<?php

$arr=array("0"=>"Even","1"=>"Odd");

$check=14;

echo "Your number is: ".$arr[$check%2];

?>

Output

Your number is: Even

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

<?php

function vaibhav ($value,$key){

    echo"$key: $value"."</br>";

}

$a='{"name": "vaibhav","book name":"php",

    "details":

    {

        "publisher":"litle brown"

    }

}';

$j1=json\_decode($a,true);

array\_walk\_recursive($j1,"vaibhav");

?>

Output

name: vaibhav  
book name: php  
publisher: litle brown

10. Write program to remove duplicate values from array

<?php

$a= array("A","B","C","H","B");

print\_r(array\_unique($a));

?>

Output

Array ( [0] => A [1] => B [2] => C [3] => H )

11. Get random values from array

<?php

function get\_random\_values($array, $num\_values) {

    $keys = array\_rand($array, $num\_values);

    $random\_values = [];

    if (is\_array($keys)) {

        foreach ($keys as $key) {

            $random\_values[] = $array[$key];

        }

    } else {

        $random\_values[] = $array[$keys];

    }

    return $random\_values;

}

// Example usage

$my\_array = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];

$random\_values = get\_random\_values($my\_array, 3);

print\_r($random\_values);

?>

Output

Array ( [0] => 2 [1] => 7 [2] => 8 )

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

<!DOCTYPE html>

<html>

<body>

<?php

$jsonobj = '{"Peter":35,"Ben":37,"Joe":43}';

$obj = json\_decode($jsonobj);

echo $obj->Peter;

echo $obj->Ben;

echo $obj->Joe;

?>

</body>

</html>

Output

35 37 43

13. 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.

<?php

$balances = array(

    array(1.5, 2.7, 3.2, 4.1, 5.6),

    array(6.3, 7.2, 8.9, 9.4, 10.8),

    array(11.2, 12.6, 13.9, 14.5, 15.1)

);

?>

Output

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

<?php

$numbers= [10,20,30,40,50];

$total=0;

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

    $total +=$numbers[$i];

}

echo"Total: ".$total;

?>

Output

Total: 150