***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.

<?php

$physics= 95;

$chem = 85;

$bio= 74;

$math = 64;

$comp = 53;

$total = $physics + $chem + $bio + $math + $comp;

$average = $total / 5;

$percentage = ($total / 500) \* 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 "The Total marks = " . $total . "<br>";

echo "The Average marks = " . $average . "<br>";

echo "The Percentage = " . $percentage . "<br>";

echo "The Grade = '" . $grade . "'<br>";

?>

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

<?php

$day = "4";

switch ($day)

{

case "1":

echo "It is Monday!";

break;

case "2":

echo "It is today!";

break;

case "3":

echo "It is Wednesday!";

break;

case "4":

echo "It is Thursday!";

break;

case "5":

echo "It is Friday!";

break;

case "6":

echo "It is Saturday!";

break;

case "7":

echo "It is Sunday!";

break;

default:

echo "Invalid number!";

}

?>

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

<?php

function year\_check($my\_year)

{

if ($my\_year % 400 == 0)

print("It is a leap year");

else if ($my\_year % 100 == 0)

print("It is not a leap year");

else if ($my\_year % 4 == 0)

print("It is a leap year");

else

print("It is not a leap year");

}

year\_check(2019);

year\_check(1900);

year\_check(2024);

?>

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

<?php

$num1 = 10;

$num2 = 20;

$num3 = 15;

$largest = ($num1 > $num2)

? ($num1 > $num3 ? $num1 : $num3)

: ($num2 > $num3 ? $num2 : $num3);

echo "Largest Number: $largest";

?>

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

<?php

function Fibonacci($number)

{

if ($number == 0)

return 0;

else if ($number == 1)

return 1;

else

return (Fibonacci($number-1) + Fibonacci($number-2));

}

$number = 10;

for ($counter = 0; $counter < $number; $counter++)

{

echo Fibonacci($counter),' ';

}

?>

Write a program to find whether a number is Armstrong or not .

<?php

function armstrongCheck($number)

{

$sum = 0;

$x = $number;

while($x != 0)

{

$rem = $x % 10;

$sum = $sum + $rem\*$rem\*$rem;

$x = $x / 10;

}

// if true then armstrong number

if ($number == $sum)

return 1;

// not an armstrong number

return 0;

}

$number = 407;

$flag = armstrongCheck($number);

if ($flag == 1)

echo "Yes";

else

echo "No"

?>

Write a program to print the below format :

5 9

2 6 10

3 7 11

4 8 12

<?php

$row=4;

$col=3;

$start=5;

for($i=0;$i<$row;$i++)

{

for($j=0;$j<$col;$j++)

{

if($i==1)

$start=1;

$pattern= ($start + $j\*4 + $i)." ";

if($pattern==13)

{

continue;

}

echo $pattern;

}

echo "<br>";

}

?>

Write a program for this Pattern:

\* \* \* \* \*

\*

\*

\*

\* \* \* \* \*

<?php

for($i=0;$i<5;$i++)

{

echo " \*";

}

echo "<br>";

for($i=0;$i<3;$i++)

{

echo " \*"."<br>";

}

for($i=0;$i<5;$i++)

{

echo " \*";

}

?>

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";

Value of $a=21 and Value of $b=21

In this case we are passing reference of $a to $b, that means if we create some changes in $b it will affect the value of $a. So the values of $a and $b will be the same.

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

<?php

$num=46;

$arr=array("Even", "Odd");

echo $arr[$num%2];

?>

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

**Array:-** An array is a special variable that can hold many values under a single name, and you can access the values by referring to an index number or name.

Array's index number always start with 0.

Last index of array is n-1 or size-1.

**Types of Arrays:-**

There are three types of arrays in PHP:-

1. Indexed arrays - Arrays with a numeric index
2. Associative arrays - Arrays with named keys
3. Multidimensional arrays - Arrays containing one or more arrays

**Declaring Indexed Array:**

$fruits = array("apple", "banana", "orange", "grape");

**Declaring Associative Array:-**

$car = array("brand"=>"Ford", "model"=>"Mustang", "year"=>1964);

echo $car["model"];

**Declaring Multidimensional Array:-**

<?php

$cars;

$cars[0][0]="Mustang GT ";

$cars[0][1]="Audi Q7 ";

$cars[0][2]="MG Hector ";

$cars[1][0]="Harrier ";

$cars[1][1]="MG Glooster";

$cars[1][2]="XUV 700";

$cars[2][0]="BMW X1 ";

$cars[2][1]="Toyota Vellfire ";

$cars[2][2]="Innova Hycross";

$cars[3][0]="Volvo XC90 ";

$cars[3][1]="Fortuner ";

$cars[3][2]="Scorpio";

for($i=0;$i<4;$i++)

{

for($j=0;$j<3;$j++)

{

echo $cars[$i][$j];

}

echo "<br>". "<br>";

}

?>

Write program to remove duplicate values from array

<?php

$a = array("red","green","red","blue");

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

?>

OUTPUT: red green blue

arrry\_unique() :- The array\_unique() function removes duplicate values from an array. If two or more array values are the same, the first appearance will be kept and the other will be removed.

Get random values from array

<?php

$a = array("red","green","red","blue");

echo $a[2];

?>

OUTPUT: red

Write a PHP script which decodes the following JSON string.

<?php

$jsonobj = '{"Karan":35,"Ashish":37,"Ravi":43}';

var\_dump(json\_decode($jsonobj));

?>

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

$numbers=array(10,20,30,40,50);

$total=0;

for($i=0;$i<5;$i++)

{

$total= $total+$numbers[$i];

}

echo $total;

?>

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

<?php

$balances[0][0]=10.6;

$balances[0][1]=1.3;

$balances[0][2]=1.6;

$balances[0][3]=25.3;

$balances[0][4]=3.3;

$balances[1][0]=20.1;

$balances[1][1]=10.10;

$balances[1][2]=0.6;

$balances[1][3]=14.5;

$balances[1][4]=1.0;

$balances[2][0]=1.8;

$balances[2][1]=8.9;

$balances[2][2]=2.8;

$balances[2][3]=3.2132;

$balances[2][4]=98.12;

for($i=0;$i<3;$i++)

{

for($j=0;$j<5;$j++)

{

echo $balances[$i][$j];

}

echo "<br>";

}

?>