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?php
//Write a PHP program for print Previous semester Result using variables & //constants in PHP.
// Define constants for the previous semester's result
//syntax: define(name, value)
define("SUBJECT 1", "Mathematics");
define("SUBJECT 2", "Physics");
define("SUBJECT 3", "Chemistry");
// Define variables for marks obtained - variable comes with $ sign
$marks subject 1 = 85;
marks subject 2 = 75;
$marks subject 3 = 80;
// Calculate total marks
$total marks = $marks_subject_1 + $marks_subject_2 + $marks_subject_3;
// Calculate percentage
$percentage = ($total marks / 300) * 100;
// Print the result, echo is use to print anything in php
echo "Previous Semester Result"."<br>";
echo "Subject\t\tMarks Obtained<br>";
echo "-----<br>";
echo SUBJECT 1 . "\t\t" . $marks subject 1 . "<br>";
echo SUBJECT_2 . "\t\t" . $marks_subject_2 . "<br>";
echo SUBJECT_3 . "\t\t" . $marks_subject_3 . "<br>";
echo "-----<br>";
echo "Total Marks:\t" . $total marks . "/300<br>";
echo "Percentage:\t" . number format($percentage, 2) . "%<br>";
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// Define an array of numbers
//array: collection of elements

$numbers = array(10, 55, 20, 15, 30);

#print($numbers)

// Find the maximum number
$max_number = max($numbers);

// Find the minimum number
$min_number = min($numbers);

// Print the maximum and minimum numbers
echo "Maximum Number: " . $max_number . "<br>";
echo "Minimum Number: " . $min_number . "<br>";
echo "Minimum Number: " . $min_number . "<br>";
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|<?php</pre>
//Write a PHP program for operators in PHP
// Arithmetic operators
a = 10;
b = 5;
addition = a + b;
$subtraction = $a - $b;
$multiplication = $a * $b;
$division = $a / $b;
$modulo = $a % $b;
echo "Arithmetic Operators: <br>";
echo "Addition: $addition<br>";
echo "Subtraction: $subtraction<br>";
echo "Multiplication: $multiplication <br>";
echo "Division: $division<br>";
echo "Modulo: $modulo<br><br>";
// Assignment operators
$x = 20;
y = 10;
//$x += $y; // Equivalent to $x = $x + $y;20+10
$x-=$y;
echo "Assignment Operators: <br>";
echo "x -= y: $x<br><br>";
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echo "x -= y: $x < br > < br > ";
  // Comparison operators
  p = 10;
  $q = 20;
  echo "Comparison Operators: <br>";
  echo "Equal to (p == q): " . (p == pq) . "(p == pq) . "(p == pq) ."
 echo "Not equal to (p != q): " . (p != q) . "p != q." //true
  echo "Greater than (p > q): " . (p > p) . " (p > q) . " (p > q)
  echo "Less than (p < q): " . (p < q) . "<br/>'; //true
  echo "Greater than or equal to (p \ge q): " . (p \ge q) . "(p \ge q) 
  echo "Less than or equal to (p \le q): " . (p \le q) . " (p \le q) ."
  // Logical operators
  $bool1 = true;
  $bool2 = false;
  echo "Logical Operators:<br>";
 echo "AND (bool1 && bool2): " . ($bool1 && $bool2) . " <br/> ';//false echo "OR (bool1 || bool2): " . ($bool1 || $bool2) . " <br/> ';//true
  echo "NOT (!bool1): " . (!$bool1) . "<br></pr>
  // Increment and decrement operators
  num = 5;
  echo "Increment and Decrement Operators: <br/> ";
  echo "Initial value of num: $num <br>";
  echo "After incrementing num: $num <br>";
  $num--;
  echo "After decrementing num: $num <br>";
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//Write a PHP program to print current month using if..else& switch case
// Using if...else
//date() : take system date and m will be number of month i.e. 05(may)
$month_number = date('m'); //05
echo "Using if...else:<br>";
if ($month_number == 1)
] {
    echo "January<br>";
-} elseif ($month_number == 2)
} {
    echo "February<br>";
-} elseif ($month_number == 3)
] {
    echo "March<br>";
-} elseif ($month_number == 4)
] {
    echo "April<br>";
-} elseif ($month_number == 5)
] {
    echo "May<br>";
-} elseif ($month_number == 6)
] {
    echo "June<br>";
-} elseif ($month_number == 7)
} {
    echo "July<br>";
-} elseif ($month_number == 8)
} {
    echo "August<br>";
-} elseif ($month_number == 9)
] {
    echo "September<br>";
-} elseif ($month_number == 10)
1 {
    echo "October<br>";
-} elseif ($month number == 11)
] {
    echo "November<br>";
-} elseif ($month_number == 12)
echo "December<br>";
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     echo "December<br>";
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 // Using switch case
echo "<br/>br>Using switch case:<br>";
switch (4) {
     case 1:
         echo "January<br>";
         break;
         echo "February<br>";
         break;
     case 3:
         echo "March<br>";
         break;
     case 4:
         echo "April<br>";
         break;
         echo "May<br>";
         break;
     case 6:
         echo "June<br>";
         break;
     case 7:
         echo "July<br>";
         break;
     case 8:
         echo "August<br>";
         break;
     case 9:
         echo "September<br>";
         break;
     case 10:
         echo "October<br>";
         break;
     case 11:
         echo "November<br>";
         break;
         echo "December<br>";
         break;
     default:
         echo "Invalid month<br>";
         break;
— )-
-?>
```

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<?php
 //Write a PHP programto print 5 to 10 using For and ForEach.
 echo "Using for loop: <br>";
 //for(inti;condition;increment/decrement)
 //increment
 echo "Increment <br>";
 for ($i = 5; $i <= 10; $i++)
     echo $i . " ";
-}
 //decrement
 echo "<br>Decrement<br>";
for ($i = 15; $i >= 10; $i--)
     echo $i . " ";
 echo "<br>Using foreach loop:<br>";
 //range(start,end,step=optional)
 $numbers = range(11,15); //11 12 13 14 15
foreach($numbers as $x) {
  echo $x . "<br>";
-}
//example of alphbets
 echo "<br>This is using Alphabets in foreach : <br> ";
 $alpha=range('a','e');
foreach($alpha as $a)
} {
     echo $a."<br>";
 echo "Reverse alphabets : <br>";
 $alpha2=range('i','a',3);
foreach($alpha2 as $a)
     echo $a."<br>";
```