**1. Hello World**

php

Copy code

<?php

echo "Hello, World!";

?>

**Output:**

Copy code

Hello, World!

**2. Adding Two Numbers**

php

Copy code

<?php

$a = 5;

$b = 10;

$sum = $a + $b;

echo "Sum: $sum";

?>

**Output:**

makefile

Copy code

Sum: 15

**3. Subtracting Two Numbers**

php

Copy code

<?php

$a = 20;

$b = 5;

$difference = $a - $b;

echo "Difference: $difference";

?>

**Output:**

makefile

Copy code

Difference: 15

**4. Multiplying Two Numbers**

php

Copy code

<?php

$a = 4;

$b = 3;

$product = $a \* $b;

echo "Product: $product";

?>

**Output:**

makefile

Copy code

Product: 12

**5. Dividing Two Numbers**

php

Copy code

<?php

$a = 10;

$b = 2;

$quotient = $a / $b;

echo "Quotient: $quotient";

?>

**Output:**

makefile

Copy code

Quotient: 5

**6. Modulus of Two Numbers**

php

Copy code

<?php

$a = 15;

$b = 4;

$remainder = $a % $b;

echo "Remainder: $remainder";

?>

**Output:**

makefile

Copy code

Remainder: 3

**7. Increment a Number**

php

Copy code

<?php

$a = 5;

$a++;

echo "Incremented: $a";

?>

**Output:**

makefile

Copy code

Incremented: 6

**8. Decrement a Number**

php

Copy code

<?php

$a = 5;

$a--;

echo "Decremented: $a";

?>

**Output:**

makefile

Copy code

Decremented: 4

**9. Check Even or Odd**

php

Copy code

<?php

$a = 10;

if ($a % 2 == 0) {

echo "$a is even";

} else {

echo "$a is odd";

}

?>

**Output:**

csharp

Copy code

10 is even

**10. Find Largest of Three Numbers**

php

Copy code

<?php

$a = 10;

$b = 20;

$c = 15;

$largest = max($a, $b, $c);

echo "Largest: $largest";

?>

**Output:**

makefile

Copy code

Largest: 20

**11. Find Smallest of Three Numbers**

php

Copy code

<?php

$a = 10;

$b = 20;

$c = 5;

$smallest = min($a, $b, $c);

echo "Smallest: $smallest";

?>

**Output:**

makefile

Copy code

Smallest: 5

**12. Swap Two Numbers**

php

Copy code

<?php

$a = 5;

$b = 10;

$temp = $a;

$a = $b;

$b = $temp;

echo "After swapping: a = $a, b = $b";

?>

**Output:**

less

Copy code

After swapping: a = 10, b = 5

**13. Check Leap Year**

php

Copy code

<?php

$year = 2024;

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

echo "$year is a leap year";

} else {

echo "$year is not a leap year";

}

?>

**Output:**

csharp

Copy code

2024 is a leap year

**14. Factorial of a Number**

php

Copy code

<?php

function factorial($n) {

if ($n == 0) {

return 1;

} else {

return $n \* factorial($n - 1);

}

}

$n = 5;

echo "Factorial of $n is " . factorial($n);

?>

**Output:**

csharp

Copy code

Factorial of 5 is 120

**15. Fibonacci Sequence**

php

Copy code

<?php

function fibonacci($n) {

if ($n == 0) {

return 0;

} elseif ($n == 1) {

return 1;

} else {

return fibonacci($n - 1) + fibonacci($n - 2);

}

}

$n = 10;

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

echo fibonacci($i) . " ";

}

?>

**Output:**

Copy code

0 1 1 2 3 5 8 13 21 34

**16. Reverse a String**

php

Copy code

<?php

$str = "Hello, World!";

$reversed = strrev($str);

echo "Reversed string: $reversed";

?>

**Output:**

yaml

Copy code

Reversed string: !dlroW ,olleH

**17. Convert String to Uppercase**

php

Copy code

<?php

$str = "hello, world!";

$uppercase = strtoupper($str);

echo "Uppercase string: $uppercase";

?>

**Output:**

c

Copy code

Uppercase string: HELLO, WORLD!

**18. Convert String to Lowercase**

php

Copy code

<?php

$str = "HELLO, WORLD!";

$lowercase = strtolower($str);

echo "Lowercase string: $lowercase";

?>

**Output:**

c

Copy code

Lowercase string: hello, world!

**19. Calculate String Length**

php

Copy code

<?php

$str = "Hello, World!";

$length = strlen($str);

echo "Length of string: $length";

?>

**Output:**

c

Copy code

Length of string: 13

**20. Replace Substring**

php

Copy code

<?php

$str = "Hello, World!";

$replaced = str\_replace("World", "PHP", $str);

echo "Replaced string: $replaced";

?>

**Output:**

c

Copy code

Replaced string: Hello, PHP!

**21. Find Substring**

php

Copy code

<?php

$str = "Hello, World!";

$pos = strpos($str, "World");

if ($pos !== false) {

echo "Substring found at position: $pos";

} else {

echo "Substring not found";

}

?>

**Output:**

arduino

Copy code

Substring found at position: 7

**22. Check Palindrome**

php

Copy code

<?php

$str = "madam";

if ($str == strrev($str)) {

echo "$str is a palindrome";

} else {

echo "$str is not a palindrome";

}

?>

**Output:**

csharp

Copy code

madam is a palindrome

**23. Count Words in String**

php

Copy code

<?php

$str = "Hello, World! PHP is great.";

$word\_count = str\_word\_count($str);

echo "Number of words: $word\_count";

?>

**Output:**

javascript

Copy code

Number of words: 5

**24. Convert Array to String**

php

Copy code

<?php

$array = array("PHP", "is", "awesome");

$str = implode(" ", $array);

echo "Array to string: $str";

?>

**Output:**

vbnet

Copy code

Array to string: PHP is awesome

**25. Convert String to Array**

php

Copy code

<?php

$str = "PHP,is,awesome";

$array = explode(",", $str);

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => PHP

[1] => is

[2] => awesome

)

**26. Sum of Array Elements**

php

Copy code

<?php

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

$sum = array\_sum($array);

echo "Sum of array elements: $sum";

?>

**Output:**

c

Copy code

Sum of array elements: 15

**27. Average of Array Elements**

php

Copy code

<?php

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

$average = array\_sum($array) / count($array);

echo "Average of array elements: $average";

?>

**Output:**

c

Copy code

Average of array elements: 3

**28. Find Maximum in Array**

php

Copy code

<?php

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

$max = max($array);

echo "Maximum value: $max";

?>

**Output:**

yaml

Copy code

Maximum value: 5

**29. Find Minimum in Array**

php

Copy code

<?php

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

$min = min($array);

echo "Minimum value: $min";

?>

**Output:**

yaml

Copy code

Minimum value: 1

**30. Sort Array in Ascending Order**

php

Copy code

<?php

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

sort($array);

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[2] => 3

[3] => 5

[4] => 8

)

**31. Sort Array in Descending Order**

php

Copy code

<?php

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

rsort($array);

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 8

[1] => 5

[2] => 3

[3] => 2

[4] => 1

)

**32. Search in Array**

php

Copy code

<?php

$array = array("PHP", "Java", "Python");

$search = "Java";

if (in\_array($search, $array)) {

echo "$search is found in the array";

} else {

echo "$search is not found in the array";

}

?>

**Output:**

c

Copy code

Java is found in the array

**33. Remove Element from Array**

php

Copy code

<?php

$array = array("PHP", "Java", "Python");

$remove = "Java";

if (($key = array\_search($remove, $array)) !== false) {

unset($array[$key]);

}

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => PHP

[2] => Python

)

**34. Count Array Elements**

php

Copy code

<?php

$array = array("PHP", "Java", "Python");

$count = count($array);

echo "Number of elements in array: $count";

?>

**Output:**

c

Copy code

Number of elements in array: 3

**35. Merge Two Arrays**

php

Copy code

<?php

$array1 = array("PHP", "Java");

$array2 = array("Python", "C++");

$merged = array\_merge($array1, $array2);

print\_r($merged);

?>

**Output:**

csharp

Copy code

Array

(

[0] => PHP

[1] => Java

[2] => Python

[3] => C++

)

**36. Find Intersection of Two Arrays**

php

Copy code

<?php

$array1 = array("PHP", "Java", "Python");

$array2 = array("Python", "C++");

$intersection = array\_intersect($array1, $array2);

print\_r($intersection);

?>

**Output:**

csharp

Copy code

Array

(

[2] => Python

)

**37. Find Difference of Two Arrays**

php

Copy code

<?php

$array1 = array("PHP", "Java", "Python");

$array2 = array("Python", "C++");

$difference = array\_diff($array1, $array2);

print\_r($difference);

?>

**Output:**

csharp

Copy code

Array

(

[0] => PHP

[1] => Java

)

**38. Reverse an Array**

php

Copy code

<?php

$array = array("PHP", "Java", "Python");

$reversed = array\_reverse($array);

print\_r($reversed);

?>

**Output:**

csharp

Copy code

Array

(

[0] => Python

[1] => Java

[2] => PHP

)

**39. Check if Variable is Set**

php

Copy code

<?php

$var = "Hello, World!";

if (isset($var)) {

echo "Variable is set";

} else {

echo "Variable is not set";

}

?>

**Output:**

csharp

Copy code

Variable is set

**40. Check if Variable is Empty**

php

Copy code

<?php

$var = "";

if (empty($var)) {

echo "Variable is empty";

} else {

echo "Variable is not empty";

}

?>

**Output:**

csharp

Copy code

Variable is empty

**41. Get Current Date and Time**

php

Copy code

<?php

$date = date("Y-m-d H:i:s");

echo "Current date and time: $date";

?>

**Output:**

sql

Copy code

Current date and time: 2024-07-14 15:25:00

**42. Format a Date**

php

Copy code

<?php

$date = "2024-07-14";

$formatted\_date = date("d-m-Y", strtotime($date));

echo "Formatted date: $formatted\_date";

?>

**Output:**

bash

Copy code

Formatted date: 14-07-2024

**43. Add Days to Date**

php

Copy code

<?php

$date = "2024-07-14";

$new\_date = date("Y-m-d", strtotime($date . " + 10 days"));

echo "New date: $new\_date";

?>

**Output:**

sql

Copy code

New date: 2024-07-24

**44. Subtract Days from Date**

php

Copy code

<?php

$date = "2024-07-14";

$new\_date = date("Y-m-d", strtotime($date . " - 10 days"));

echo "New date: $new\_date";

?>

**Output:**

sql

Copy code

New date: 2024-07-04

**45. Calculate Age**

php

Copy code

<?php

$birthdate = "1990-01-01";

$age = date\_diff(date\_create($birthdate), date\_create("now"))->y;

echo "Age: $age";

?>

**Output:**

makefile

Copy code

Age: 34

**46. Generate Random Number**

php

Copy code

<?php

$random = rand(1, 100);

echo "Random number: $random";

?>

**Output:**

mathematica

Copy code

Random number: 42

**47. Check Prime Number**

php

Copy code

<?php

function is\_prime($n) {

if ($n <= 1) {

return false;

}

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

if ($n % $i == 0) {

return false;

}

}

return true;

}

$n = 7;

if (is\_prime($n)) {

echo "$n is a prime number";

} else {

echo "$n is not a prime number";

}

?>

**Output:**

csharp

Copy code

7 is a prime number

**48. Print Multiplication Table**

php

Copy code

<?php

$n = 5;

for ($i = 1; $i <= 10; $i++) {

echo "$n x $i = " . ($n \* $i) . "<br>";

}

?>

**Output:**

Copy code

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

**49. Find GCD of Two Numbers**

php

Copy code

<?php

function gcd($a, $b) {

while ($b != 0) {

$t = $b;

$b = $a % $b;

$a = $t;

}

return $a;

}

$a = 56;

$b = 98;

echo "GCD of $a and $b is " . gcd($a, $b);

?>

**Output:**

csharp

Copy code

GCD of 56 and 98 is 14

**50. Find LCM of Two Numbers**

php

Copy code

<?php

function gcd($a, $b) {

while ($b != 0) {

$t = $b;

$b = $a % $b;

$a = $t;

}

return $a;

}

function lcm($a, $b) {

return abs($a \* $b) / gcd($a, $b);

}

$a = 15;

$b = 20;

echo "LCM of $a and $b is " . lcm($a, $b);

?>

**Output:**

csharp

Copy code

LCM of 15 and 20 is 60

These 50 programs cover a range of basic PHP functionalities, from arithmetic operations and string manipulations to array handling and date operations. They provide a good foundation for understanding and practicing PHP programming.

4o

more

ChatGPT

Certainly! Here are 50 more small PHP programs covering various topics to expand your knowledge.

**51. Check Armstrong Number**

php

Copy code

<?php

function is\_armstrong($num) {

$sum = 0;

$temp = $num;

while ($temp != 0) {

$digit = $temp % 10;

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

$temp = $temp / 10;

}

return $sum == $num;

}

$num = 153;

if (is\_armstrong($num)) {

echo "$num is an Armstrong number";

} else {

echo "$num is not an Armstrong number";

}

?>

**Output:**

csharp

Copy code

153 is an Armstrong number

**52. Find HCF of Two Numbers**

php

Copy code

<?php

function hcf($a, $b) {

if ($b == 0) {

return $a;

}

return hcf($b, $a % $b);

}

$a = 24;

$b = 36;

echo "HCF of $a and $b is " . hcf($a, $b);

?>

**Output:**

csharp

Copy code

HCF of 24 and 36 is 12

**53. Find LCM of Two Numbers**

php

Copy code

<?php

function gcd($a, $b) {

return $b == 0 ? $a : gcd($b, $a % $b);

}

function lcm($a, $b) {

return abs($a \* $b) / gcd($a, $b);

}

$a = 12;

$b = 15;

echo "LCM of $a and $b is " . lcm($a, $b);

?>

**Output:**

csharp

Copy code

LCM of 12 and 15 is 60

**54. Sum of Digits of a Number**

php

Copy code

<?php

$num = 12345;

$sum = 0;

while ($num > 0) {

$digit = $num % 10;

$sum += $digit;

$num = (int)($num / 10);

}

echo "Sum of digits is $sum";

?>

**Output:**

csharp

Copy code

Sum of digits is 15

**55. Reverse a Number**

php

Copy code

<?php

$num = 12345;

$reversed = 0;

while ($num > 0) {

$digit = $num % 10;

$reversed = $reversed \* 10 + $digit;

$num = (int)($num / 10);

}

echo "Reversed number is $reversed";

?>

**Output:**

csharp

Copy code

Reversed number is 54321

**56. Calculate Power of a Number**

php

Copy code

<?php

$base = 2;

$exp = 3;

$result = pow($base, $exp);

echo "$base raised to the power of $exp is $result";

?>

**Output:**

vbnet

Copy code

2 raised to the power of 3 is 8

**57. Check Perfect Number**

php

Copy code

<?php

function is\_perfect($num) {

$sum = 0;

for ($i = 1; $i <= $num / 2; $i++) {

if ($num % $i == 0) {

$sum += $i;

}

}

return $sum == $num;

}

$num = 28;

if (is\_perfect($num)) {

echo "$num is a perfect number";

} else {

echo "$num is not a perfect number";

}

?>

**Output:**

csharp

Copy code

28 is a perfect number

**58. Generate Prime Numbers in a Range**

php

Copy code

<?php

function is\_prime($n) {

if ($n <= 1) {

return false;

}

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

if ($n % $i == 0) {

return false;

}

}

return true;

}

$start = 10;

$end = 50;

echo "Prime numbers between $start and $end: ";

for ($i = $start; $i <= $end; $i++) {

if (is\_prime($i)) {

echo $i . " ";

}

}

?>

**Output:**

mathematica

Copy code

Prime numbers between 10 and 50: 11 13 17 19 23 29 31 37 41 43 47

**59. Generate Fibonacci Series**

php

Copy code

<?php

$n = 10;

$a = 0;

$b = 1;

echo "Fibonacci series: ";

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

echo $a . " ";

$next = $a + $b;

$a = $b;

$b = $next;

}

?>

**Output:**

mathematica

Copy code

Fibonacci series: 0 1 1 2 3 5 8 13 21 34

**60. Find Sum of First N Natural Numbers**

php

Copy code

<?php

$n = 10;

$sum = $n \* ($n + 1) / 2;

echo "Sum of first $n natural numbers is $sum";

?>

**Output:**

sql

Copy code

Sum of first 10 natural numbers is 55

**61. Print First N Even Numbers**

php

Copy code

<?php

$n = 10;

echo "First $n even numbers: ";

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

echo ($i \* 2) . " ";

}

?>

**Output:**

mathematica

Copy code

First 10 even numbers: 2 4 6 8 10 12 14 16 18 20

**62. Print First N Odd Numbers**

php

Copy code

<?php

$n = 10;

echo "First $n odd numbers: ";

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

echo ($i \* 2 + 1) . " ";

}

?>

**Output:**

mathematica

Copy code

First 10 odd numbers: 1 3 5 7 9 11 13 15 17 19

**63. Calculate Simple Interest**

php

Copy code

<?php

$principal = 1000;

$rate = 5;

$time = 2;

$simple\_interest = ($principal \* $rate \* $time) / 100;

echo "Simple Interest is $simple\_interest";

?>

**Output:**

csharp

Copy code

Simple Interest is 100

**64. Calculate Compound Interest**

php

Copy code

<?php

$principal = 1000;

$rate = 5;

$time = 2;

$compound\_interest = $principal \* pow((1 + $rate / 100), $time) - $principal;

echo "Compound Interest is $compound\_interest";

?>

**Output:**

csharp

Copy code

Compound Interest is 102.5

**65. Calculate Area of a Circle**

php

Copy code

<?php

$radius = 5;

$area = pi() \* pow($radius, 2);

echo "Area of the circle is $area";

?>

**Output:**

arduino

Copy code

Area of the circle is 78.539816339745

**66. Calculate Perimeter of a Circle**

php

Copy code

<?php

$radius = 5;

$perimeter = 2 \* pi() \* $radius;

echo "Perimeter of the circle is $perimeter";

?>

**Output:**

arduino

Copy code

Perimeter of the circle is 31.415926535897

**67. Calculate Area of a Rectangle**

php

Copy code

<?php

$length = 10;

$width = 5;

$area = $length \* $width;

echo "Area of the rectangle is $area";

?>

**Output:**

csharp

Copy code

Area of the rectangle is 50

**68. Calculate Perimeter of a Rectangle**

php

Copy code

<?php

$length = 10;

$width = 5;

$perimeter = 2 \* ($length + $width);

echo "Perimeter of the rectangle is $perimeter";

?>

**Output:**

csharp

Copy code

Perimeter of the rectangle is 30

**69. Calculate Area of a Triangle**

php

Copy code

<?php

$base = 10;

$height = 5;

$area = 0.5 \* $base \* $height;

echo "Area of the triangle is $area";

?>

**Output:**

csharp

Copy code

Area of the triangle is 25

**70. Calculate Perimeter of a Triangle**

php

Copy code

<?php

$a = 3;

$b = 4;

$c = 5;

$perimeter = $a + $b + $c;

echo "Perimeter of the triangle is $perimeter";

?>

**Output:**

csharp

Copy code

Perimeter of the triangle is 12

**71. Convert Celsius to Fahrenheit**

php

Copy code

<?php

$celsius = 25;

$fahrenheit = ($celsius \* 9/5) + 32;

echo "$celsius Celsius is $fahrenheit Fahrenheit";

?>

**Output:**

csharp

Copy code

25 Celsius is 77 Fahrenheit

**72. Convert Fahrenheit to Celsius**

php

Copy code

<?php

$fahrenheit = 77;

$celsius = ($fahrenheit - 32) \* 5/9;

echo "$fahrenheit Fahrenheit is $celsius Celsius";

?>

**Output:**

csharp

Copy code

77 Fahrenheit is 25 Celsius

**73. Convert Kilometers to Miles**

php

Copy code

<?php

$kilometers = 5;

$miles = $kilometers \* 0.621371;

echo "$kilometers kilometers is $miles miles";

?>

**Output:**

csharp

Copy code

5 kilometers is 3.106855 miles

**74. Convert Miles to Kilometers**

php

Copy code

<?php

$miles = 3.1;

$kilometers = $miles / 0.621371;

echo "$miles miles is $kilometers kilometers";

?>

**Output:**

csharp

Copy code

3.1 miles is 4.988956 kilometers

**75. Convert Binary to Decimal**

php

Copy code

<?php

$binary = "1101";

$decimal = bindec($binary);

echo "Binary $binary is Decimal $decimal";

?>

**Output:**

vbnet

Copy code

Binary 1101 is Decimal 13

**76. Convert Decimal to Binary**

php

Copy code

<?php

$decimal = 13;

$binary = decbin($decimal);

echo "Decimal $decimal is Binary $binary";

?>

**Output:**

vbnet

Copy code

Decimal 13 is Binary 1101

**77. Convert Hexadecimal to Decimal**

php

Copy code

<?php

$hex = "1A";

$decimal = hexdec($hex);

echo "Hexadecimal $hex is Decimal $decimal";

?>

**Output:**

vbnet

Copy code

Hexadecimal 1A is Decimal 26

**78. Convert Decimal to Hexadecimal**

php

Copy code

<?php

$decimal = 26;

$hex = dechex($decimal);

echo "Decimal $decimal is Hexadecimal $hex";

?>

**Output:**

vbnet

Copy code

Decimal 26 is Hexadecimal 1A

**79. Convert Octal to Decimal**

php

Copy code

<?php

$octal = "31";

$decimal = octdec($octal);

echo "Octal $octal is Decimal $decimal";

?>

**Output:**

vbnet

Copy code

Octal 31 is Decimal 25

**80. Convert Decimal to Octal**

php

Copy code

<?php

$decimal = 25;

$octal = decoct($decimal);

echo "Decimal $decimal is Octal $octal";

?>

**Output:**

vbnet

Copy code

Decimal 25 is Octal 31

**81. Generate a Random String**

php

Copy code

<?php

$length = 10;

$random\_string = bin2hex(random\_bytes($length / 2));

echo "Random string: $random\_string";

?>

**Output:**

c

Copy code

Random string: 5e2a84256c

**82. Convert String to Array**

php

Copy code

<?php

$str = "PHP is awesome";

$array = explode(" ", $str);

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => PHP

[1] => is

[2] => awesome

)

**83. Convert Array to String**

php

Copy code

<?php

$array = array("PHP", "is", "awesome");

$str = implode(" ", $array);

echo "Array to string: $str";

?>

**Output:**

vbnet

Copy code

Array to string: PHP is awesome

**84. Reverse an Array**

php

Copy code

<?php

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

$reversed = array\_reverse($array);

print\_r($reversed);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 5

[1] => 4

[2] => 3

[3] => 2

[4] => 1

)

**85. Count Elements in an Array**

php

Copy code

<?php

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

$count = count($array);

echo "Number of elements: $count";

?>

**Output:**

javascript

Copy code

Number of elements: 5

**86. Remove Duplicates from Array**

php

Copy code

<?php

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

$unique = array\_unique($array);

print\_r($unique);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[3] => 3

[4] => 4

[6] => 5

)

**87. Check if Key Exists in Array**

php

Copy code

<?php

$array = array("a" => 1, "b" => 2, "c" => 3);

$key = "b";

if (array\_key\_exists($key, $array)) {

echo "Key $key exists in the array";

} else {

echo "Key $key does not exist in the array";

}

?>

**Output:**

sql

Copy code

Key b exists in the array

**88. Check if Value Exists in Array**

php

Copy code

<?php

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

$value = 3;

if (in\_array($value, $array)) {

echo "Value $value exists in the array";

} else {

echo "Value $value does not exist in the array";

}

?>

**Output:**

sql

Copy code

Value 3 exists in the array

**89. Get Keys of an Array**

php

Copy code

<?php

$array = array("a" => 1, "b" => 2, "c" => 3);

$keys = array\_keys($array);

print\_r($keys);

?>

**Output:**

css

Copy code

Array

(

[0] => a

[1] => b

[2] => c

)

**90. Get Values of an Array**

php

Copy code

<?php

$array = array("a" => 1, "b" => 2, "c" => 3);

$values = array\_values($array);

print\_r($values);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[2] => 3

)

**91. Sort Array in Ascending Order**

php

Copy code

<?php

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

sort($array);

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[2] => 3

[3] => 5

[4] => 8

)

**92. Sort Array in Descending Order**

php

Copy code

<?php

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

rsort($array);

print\_r($array);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 8

[1] => 5

[2] => 3

[3] => 2

[4] => 1

)

**93. Merge Two Arrays**

php

Copy code

<?php

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

$array2 = array(4, 5, 6);

$merged = array\_merge($array1, $array2);

print\_r($merged);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[2] => 3

[3] => 4

[4] => 5

[5] => 6

)

**94. Find Intersection of Two Arrays**

php

Copy code

<?php

$array1 = array(1, 2, 3, 4, 5);

$array2 = array(4, 5, 6, 7, 8);

$intersection = array\_intersect($array1, $array2);

print\_r($intersection);

?>

**Output:**

csharp

Copy code

Array

(

[3] => 4

[4] => 5

)

**95. Find Difference of Two Arrays**

php

Copy code

<?php

$array1 = array(1, 2, 3, 4, 5);

$array2 = array(4, 5, 6, 7, 8);

$difference = array\_diff($array1, $array2);

print\_r($difference);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[2] => 3

)

**96. Get Unique Values from Two Arrays**

php

Copy code

<?php

$array1 = array(1, 2, 3, 4, 5);

$array2 = array(4, 5, 6, 7, 8);

$unique = array\_unique(array\_merge($array1, $array2));

print\_r($unique);

?>

**Output:**

csharp

Copy code

Array

(

[0] => 1

[1] => 2

[2] => 3

[3] => 4

[4] => 5

[5] => 6

[6] => 7

[7] => 8

)

**97. Calculate Sum of Array Elements**

php

Copy code

<?php

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

$sum = array\_sum($array);

echo "Sum of array elements: $sum";

?>

**Output:**

c

Copy code

Sum of array elements: 15

**98. Calculate Product of Array Elements**

php

Copy code

<?php

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

$product = array\_product($array);

echo "Product of array elements: $product";

?>

**Output:**

c

Copy code

Product of array elements: 120

**99. Calculate Average of Array Elements**

php

Copy code

<?php

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

$average = array\_sum($array) / count($array);

echo "Average of array elements: $average";

?>

**Output:**

c

Copy code

Average of array elements: 3

**100. Find Maximum Value in Array**

php

Copy code

<?php

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

$max = max($array);

echo "Maximum value in array: $max";

?>

**Output:**

c

Copy code

Maximum value in array: 5

**101. Find Minimum Value in Array**

php

Copy code

<?php

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

$min = min($array);

echo "Minimum value in array: $min";

?>

**Output:**

c

Copy code

Minimum value in array: 1

**102. Calculate Median of Array Elements**

php

Copy code

<?php

function median($arr) {

sort($arr);

$count = count($arr);

$middle = floor(($count - 1) / 2);

if ($count % 2) {

return $arr[$middle];

} else {

return ($arr[$middle] + $arr[$middle + 1]) / 2.0;

}

}

$array = array(1, 3, 3, 6, 7, 8, 9);

$median = median($array);

echo "Median of array elements: $median";

?>

**Output:**

c

Copy code

Median of array elements: 6

**103. Find Mode of Array Elements**

php

Copy code

<?php

function mode($arr) {

$values = array\_count\_values($arr);

$mode = array\_keys($values, max($values));

return $mode;

}

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

$mode = mode($array);

echo "Mode of array elements: " . implode(", ", $mode);

?>

**Output:**

c

Copy code

Mode of array elements: 3

**104. Find Range of Array Elements**

php

Copy code

<?php

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

$range = max($array) - min($array);

echo "Range of array elements: $range";

?>

**Output:**

sql

Copy code

Range of array elements: 4

**105. Find Standard Deviation of Array Elements**

php

Copy code

<?php

function standard\_deviation($arr) {

$mean = array\_sum($arr) / count($arr);

$sum = 0;

foreach ($arr as $value) {

$sum += pow($value - $mean, 2);

}

return sqrt($sum / count($arr));

}

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

$std\_dev = standard\_deviation($array);

echo "Standard deviation of array elements: $std\_dev";

?>

**Output:**

c

Copy code

Standard deviation of array elements: 1.4142135623731