

Exercise - PHP Program - without using SQL

1. Write a PHP script that uses an HTML form to capture the user's name. When the form is submitted, the script should display a personalized greeting like "Hello, [User Name]! Welcome to our website." Include form validation to ensure the user doesn't submit an empty name.
2. Write a PHP program that takes a number as input, checks if it's a palindrome, and displays a message like "The number [number] is a palindrome" or "The number [number] is not a palindrome.". A number is a palindrome if it reads the same forwards and backwards (e.g., 121 or 1221).
3. An Armstrong number (or narcissistic number) is one that is equal to the sum of its own digits each raised to the power of the number of digits (e.g., $153 = 1^3 + 5^3 + 3^3$). Develop a PHP script that takes an integer input and checks if it's an Armstrong number, displaying an appropriate message.
4. Write a program that defines two functions: one to compare two numbers and the other to return the largest value using the first function. The outer function should call the inner comparison function and then display the larger number.
5. Build a PHP-based calculator that supports basic arithmetic operations like addition, subtraction, multiplication, and division. The user should be able to input two numbers and select an operation from a dropdown list. Upon submission, the result of the calculation should be displayed.
6. Write a PHP program that takes a user's birthdate as input and calculates their current age in years. The program should also handle edge cases, such as leap years, and give the exact age (years and months) if possible.
7. Create a PHP program that checks whether a string (word or sentence) is a palindrome. Ignore case, spaces, and punctuation while making the comparison. The program should display whether the input is a palindrome or not, providing examples like "madam" or "A man, a plan, a canal, Panama."
8. Develop a PHP program that defines and uses multiple functions. For instance, you could create a function to calculate the factorial of a number, another function to calculate the area of a circle, and demonstrate calling these functions from within the script.
9. Write a PHP script that simulates a login system using hardcoded credentials (username and password). Create a simple HTML form where users can enter their

login details. The PHP script should validate the input, checking the credentials against hardcoded values, and display a message if the login is successful or not.

10. Write a program that demonstrates various array manipulations, such as adding, deleting, and modifying elements in an array. Additionally, show how to sort an array, search for a specific element, and merge two arrays. Display the output after each operation.
11. Create a PHP program that collects personal information from a user, such as name, email, age, and address, through a form. Upon submission, display the entered information in a well-formatted manner. Include form validation and ensure the data is sanitized to avoid security issues like XSS (Cross-Site Scripting).