PHP

1. Write a PHP script for the following: Design a form to accept a string. Write a function to count the total number of vowels (a,e,i,o,u) from the string. Show the occurrences of each vowel from the string. Check whether the given string is a palindrome or not, without using built-in function. (Use radio buttons and the concept of function. Use 'include' construct or require stmt.)
2. Write a PHP script for the following: Design a form to accept two strings from the user. Find the first occurrence and the last occurrence of the small string in the large string. Also count the total number of occurrences of small string in the large string. Provide a text box to accept a string, which will replace the small string in the large string. (Use built-in functions)
3. Write a PHP script for the following: Design a form to accept two numbers from the user. Give options to choose the arithmetic operation (use radio buttons). Display the result on the same form. (Use the concept of function and default parameters. Use 'include' construct or require stmt)
4. Write a PHP script for the following: Design a form to accept the details of 5 different items, such as item code, item name, units sold, rate. Display the bill in the tabular format. Use only 4 text boxes. (Hint : Use of explode function.)
5. ~~Write a PHP script for the following: Design a form to accept two strings. Compare the two strings using both methods (= = operator & strcmp function). Append second string to the first string. Accept the position from the user; from where the characters from the first string are reversed. (Use radio buttons)~~
6. Write a menu driven program to perform the following operations on an associative array:
   - i.   Display the elements of an array along with the keys.
   - ii.   Display the size of an array
   - iii.   Delete an element from an array from the given index.
   - iv.   Reverse the order of each element's key-value pair [Hint: use array_flip()]
   - v.   Traverse the elements in an array in random order [[Hint: use shuffle()].
7. Write a PHP script to accept a string from the user and check whether it is a palindrome or not.
8. Define an array. Find the element from the array that matches the given value using appropriate search function.
9. ~~Write a menu driven program to perform the following stack and queue related operations:[Hint: use Array_push(), Array_pop(), Array_shift(), array_unshift() functions]~~
   - ~~a.   Insert an element in stack~~
   - ~~b.   Delete an element from stack~~
   - ~~c.   Display the contents of stack~~
   - ~~d.   Insert an element in queue~~
   - ~~e.   Delete an element from queue~~
   - ~~f.   Display the contents of queue~~
10. ~~A program to read two file names from user and append contents of first file~~

into second file.

11. ~~Write a program to read a flat file student.dat and display the data from file in tabular format also calculate the percentage.~~

12. ~~Write a menu driven program to perform various file operations.~~
    a. ~~Display size of file~~
    b. ~~Display Last Access, changed, modified time of file~~
    c. ~~Display details about owner and user of File~~
    d. ~~Display type of file~~
    e. ~~Delete a file~~
    f. ~~Copy a file~~

13. Write a program in PHP to display Multiplication Table using nested for loop
    In one PHP page do the following:
    i. Write your first name repeated five times using a while loop.
    ii. Write your last name in increasing heading size starting with h1 till h6. Use a for loop this time.

14. Write a function that sums the values of arbitrary numbers.

15. ~~Use control statements to check the season of the year given the month as a number.~~
    a. ~~Spring months → 3, 4, 5~~
    b. ~~Summer months → 6, 7, 8~~
    c. ~~Autumn months → 9, 10, 11~~
    d. ~~Winter months → 12, 1, 2~~

16. ~~Create an array of three employee names. Create another array that associates employee names with their salary values. Print both arrays using foreach loop.~~

17. ~~Write PHP code to declare an associative array of six elements that has supermarket item names associated with their price. Use a function to calculate the total price of all items purchased. Print the array using foreach loop followed by the total cost of items.~~

18. ~~Create a login form with a username and password. Once the user logs in, the second form should be displayed to accept user details (name, city, phoneno). If the user doesn't enter information within a specified time limit, expire his session and give a warning.~~

19. ~~Write a script to keep track of number of times the web page has been accessed.~~

20. ~~Create a form to accept student information (name, class, address). Once the student information is accepted, accept marks in next form (Phy, Bio, Chem, Maths, Nepali, English) .Display the mark sheet for the student in the next form containing name, class, marks of the subject, total and percentage.~~

21. Write a program to create a shopping mall. User must be allowed to do purchase from two pages. Each page should have a page total. The third page should display a bill, which consists of a page total of what ever the purchase has been done and print the total. (Use http session tracking).

22. ~~Create a form to accept customer information(name, address, ph-no).Once the customer information is accepted, accept product information in the next form(Product name, qty, rate). Display the bill for the customer in the next form. Bill should contain the customer information and the information of the~~

~~products entered.~~
23. Write a PHP script to accept username and password . If in the first three chances, username and password entered is correct, then display second form, otherwise display error message.
24. WAP for the following :
    a. Implement simple calculator operations.
    b. ~~Find the Transpose of a matrix, Multiplication of two matrices and Addition of two matrices.~~
25. WAP to display the Fibonacci series upto 10th term.
26. WAP to read a number and find whether it is a palindrome or not.
27. WAP to read a number and print it in a reverse order.
28. WAP to accept a number and find the sum of digits of the number.
29. WAP to write the name, roll number and marks of 10 students and store them in a file. Also read from the same file and display the result to the user.
30. Write a PHP script to upload a file into the server with maximum size of 10 MB and only file extensions pdf, docx and pptx are allowed. Also, move the uploaded file to your application directory.
31. Write a PHP script to accept a sentence about yourself using a form and write it to a text file named "info.txt" and display the contents of the file in a formatted manner with red color.
32. Write a PHP Script to perform CRUD operations. Perform the following validations during input.
33. Write a PHP script to accept username/email and password from the user and redirect to success.php upon successful login. Use database.

Object Oriented PHP
1. Define an interface which has methods area(), volume(). Define constant PI. Create a class cylinder which implements this interface and calculate area and volume. (Hint: Use define())
2. Write class declarations and member function definitions for an employee(code, name, designation). Design derived classes as emp_account(account_no, joining_date) from employee and emp_sal(basic_pay, earnings, deduction) from emp_account.
3. Derive a class square from class Rectangle. Create one more class circle. Create an interface with only one method called area(). Implement this interface in all the classes. Include appropriate data members and constructors in all classes. Write a program to accept details of a square, circle and rectangle and display the area.
34. ~~Create a class account(accno,cust_name). Derive two classes from account as saving_acc(balance, min_amount) and current_acc(balance,min_amount).~~
    a. ~~Display a menu~~
    b. ~~Saving Account~~
    c. ~~Current Account~~
    d. ~~For each of this display a menu with the following options.~~
    e. ~~Create account~~

f. Deposit
g. Withdrawal
35. Write necessary class and member function definitions for a cricket player object. The program should accept details from user (max :10) (player_code, name, runs, innings_played, no_of_times_out).
The program should contain following menu.
a. Enter details of players.
b. Display average runs of a single player.
c. Average runs of all players.
d. Display the list of players in sorted order as per runs(use function overloading)

JAVASCRIPT

1. TEXT-GROWING and TEXT-SHRINKING
2. Create HTML form with fields Full Name, Address, Telephone, Gender, Email, Country and Comments. Write JavaScript program to validate that form so that user will only write correct values. Check for empty values, number, and email and focus them on receiving invalid values.
3. Write a program which includes a function add (). It should take arbitrary number of parameters and return the result by adding all the parameters. Use browser message box to display the output.
4. Write a JavaScript program that will ask a value and store them in a cookie which need to be expire in an hour. After storing the value; upon clicking 'show' button alert the stored value.
5. Create a calculator type form. It should contain three list boxes. The first and third list boxes should list the numbers 0 to 9. The middle list box should list the following mathematical operators: +, -, * & /. The user should be able to select the two numbers and the operation. Answer should be shown on submission of the form.
6. Create an HTML code and JavaScript script that include a form with three input fields. The relationship of the value of the fields in that second field is twice the value of the first field. And the third field is square of the first field. First and Second field should be disable in nature.
7. Write a program using JavaScript to find the sum of odd numbers from 0 to 200.
8. Write a program in JavaScript to display multiplication table as follows. Take the number input from the user. E.g. Input number is 4.

Multiplicand	Multiplier	Product
4	1	4
4	2	8
...	...	...

9. ~~Write a program that reads 10 words from user and outputs only those which have "b" in the beginning.~~

10. ~~Write a program to display a number randomly. The Random number should be generated when you click upon a link 'Click Me'. If the number is less than 20 then show a alert box with a message "Hey (random Number) is less than 20",and if the random number is greater than 20 then show a alert box with a message "Your(random Number) is greater than or equals to 20".~~

11. ~~Write a program that displays the continuous time in the web page. The Time should be in the format of HH:MM:SS. [Hints use setTimeOut/setInterval function]~~

12. Write a program that will change the background color in every 2 seconds. Use at least 6 colors.

13. ~~Write a program which includes a function sum(). This function sum() should be designed to add an arbitrary list of parameters.(For e.g. if you call the function sum() as sum (2, 3) it should return the result 5 and if again you call the function sum() as sum(2,3,4) it should return the result 9).~~

14. Write a program to ask the background color with user and change the background of the page.

15. Write a program to create two text boxes and two buttons. If the user inputs the value in first text box and click upon the button then the value entered into the first text box should be displayed into the second text box (in uppercase if the user have inputted in lowercase and vice versa), similarly for the second text-box similarly for the second text box.

16. ~~Write a program that reads 5 words from user (Use Prompt for receiving input) and displays the word that has 'ha' continuous character in between the words.~~

17. ~~Write a program that will ask height & width and change the size of the browser window.~~

18. ~~Write a program to store 10 names in array and print the array elements by joining them.~~

19. ~~Write a program which display a button, clicking on that the browser window needs to be closed.~~

AJAX and jQuery