PATHSHALA NEPAL FOUNDATION

PRE-UNI PROGRAM

Baneshwor, Kathmandu



Lab assessment report on

Web Technology II (Use of JavaScript I)

**Submitted By:** **Submitted To**

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Class: 12 PATHSHALA NEPAL FOUNDATION

Group: 2

Date: 2024-01-22

**Answer the following questions:**

1. Introduction to Scripting Language.
2. Differentiate Between Server Side and Client-Side Scripting Language. (at least 5 points)
3. Explain briefly about variables, operator control Structure with examples in java script.

**Write JS program to:**

1. Calculate the volume of a sphere based on its radius input by a user.
2. Calculate sum and average of any two integers input by user.
3. Check the number input by a user is odd or even.
4. To find out the maximum, minimum, and median value among any three integers input by a user.
5. Display multiplication table of Given Number.
6. Display multiplication table of 1 to 10 with 10 multiples of each.
7. Find the maximum value among n different integers input by a user. [without using method of object]
8. Calculate area of Circle using function named area\_circle() with parameter.
9. To calculate interest for the supplied principal, rate of interest and time period by using a user-defined function named interest managing interest with 2 decimal places. [type returnable with argument]
10. Develop a JS code to confirm the oldest person among any three students whose name and age supplied by a user by using a user-defined function named seniorPerson().
11. Develop a JS code to display the day based on number 1 to 7 input by a user. [hint: 1-> SUNDAY, 2-> MONDAY, ….. 7-> SATURDAY] [SWITCHING] by using a function named chooseDay().
12. To calculate factorial value of a positive integer input by a user by using function named fact().
13. To calculate sum and average of any three integers input by a user by using function named sum() and average() respectively.
14. Develop a JS code to confirm whether an integer value input by a user is an odd or even through a user\_defined function named isOddEven(). [non-returnable with argument]
15. Develop a JS code to confirm whether an integer value input by a user is positive, negative or zero value through user-defined function named isPosNegZero().
16. To find out sum, average, maximum and minimum values among 10 different integers using function named sum(), avg(), max(), min() respectively.
17. To sort n different integers in descending order by using a function named sortDesc().
18. To find the sine, cosine and tangent ratio for the angle input in degree by a user.
19. To find out square root value of an integer value input by a user. [In case, the user supplies any negative integer, the program should convert firstly it into positive.]
20. Write a JS code to find the height of the pole based on the angle of elevation and the distance between the observer and the pole input by a user.
21. To find the length of a string input by a user and display it in uppercase.
22. To ask a user to input any two different strings and add the second one into the first one.
23. Demonstrate String Object with the method trim(), replace(), substr().
24. Demonstrate Date Object and user Defined Object.
25. To find maximum and minimum among values listed below by using built-in function. [10,-234,3000,3433,213,45,456,234,34]
26. To find out the maximum and minimum value among n different integers supplied by a user by using the suitable method of the object.