COMSATS University Islamabad, Wah Cantt. Pakistan

Web Technology LAB Work

JavaScript Lab

Tasks: Use JavaScript

i) Write a JavaScript program that accept two integers' inputs and display the larger.

ii) Write a JavaScript conditional statement to sort three numbers. Display an alert box to show the result. (Hint: *Sample numbers* : 0, -1, 4   *Output should be*: 4, 0, -1

iii) Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen.
Sample Output :
"0 is even"
"1 is odd"
"2 is even"
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iv) Write a JavaScript program to find the Armstrong numbers of 3 digits.
Note: An Armstrong number of three digits is an integer such that the sum of the cubes of its digits is equal to the number itself. For example, 371 is an Armstrong number since $3^{**}3 + 7^{**}3 + 1^{**}3 = 371$.

v) Make 3 text boxes like

Underneath make four buttons: Add, Subtract, Multiply and Divide. Make each button grab the numbers from the first two boxes, perform the appropriate calculation, and place the answer in the third box.

vi) Write a page so that when you click on a link, it asks you for a number. Then I want you to multiply that number by three and display it in an alert box like so: 5 * 3 = 15 Expand that page so that AFTER it alerts you to the answer, it asks you for ANOTHER number and adds THAT to the previous answer, and then pops up ANOTHER alert box with something like: (5 * 3) + 2 = 17

vii)   Write a JavaScript conditional statement to find the largest of five numbers. Display an alert box to show the result.
Sample numbers: -5, -2, -6, 0, -1
Output: 0

viii)   Write a JavaScript function that generates all combinations of a string. *Example* **string** *:* 'cat' **Output** *:* c,ca,cat,a,at,t

ix)   Write a JavaScript function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.
Example string : 'the quick brown fox'
Output *:* 'The Quick Brown Fox '

x)   Write a JavaScript function to extract unique characters from a string.
Example string : "thequickbrownfoxjumpsoverthelazydog"
Expected Output : "thequickbrownfxjmpsvlazydg"

xi)   Write a JavaScript function to find the first not repeated character.
Sample arguments : 'abacddbec'
Expected output : 'e'

xii)   *Write JavaScript calculator program based on following operators +, -, *, /, %, and Clear function.*