

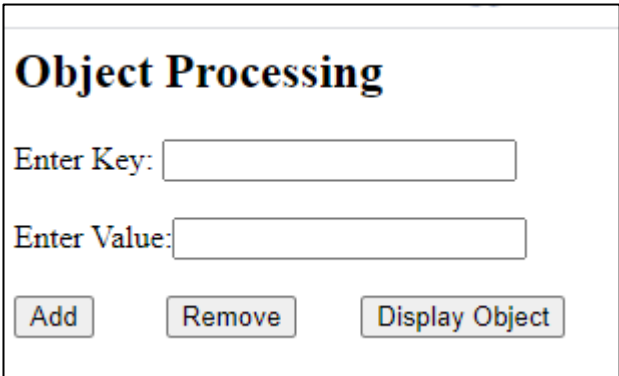
CONTINUOUS ASSESSMENT TEST – II

WINTER SEMESTER 2020-2021

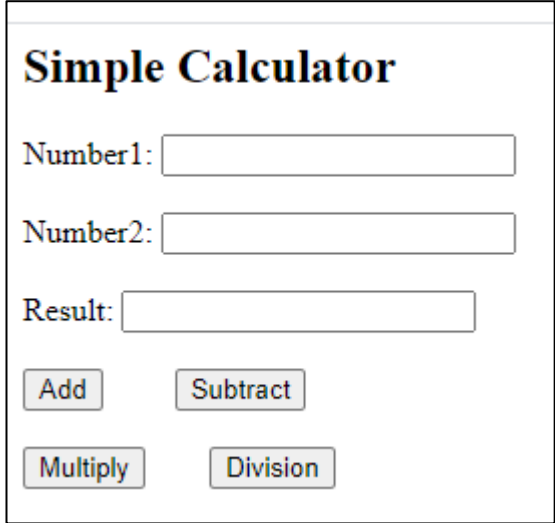
Programme Name & Branch: B.TECH Slot: F1

Course Name Code: CSE3002 Course Name: Internet and Web Programming

Instructions: Key and common mistakes are given for each question. Perhaps, the answer sheet contains hint about mistakes, and mistakes are underlined. Go through with the key and your answer sheet. If any answer is not corrected as per key, you can approach me. The unnecessary approach will reduce your marks (this time strictly not like CAT1).

S.NO	QUESTION
1.	<p>Design a HTML form to collect the key and value to process an object of JavaScript as given below.</p>  <p>Write the necessary JavaScript code to adopt the following:</p> <ol style="list-style-type: none"> Always key is string and value belong to any data type and none of them are null. The key and value pair has to be added or updated in the object whenever user clicks the “Add” button. The key and value pair has to be removed from the object whenever user clicks the “Remove” button. The content of the object to be displayed in HTML page when the user clicks the “Display Object” button.
	<p>KEY</p> <ol style="list-style-type: none"> Global array should be declared Function addValue() – to be called when add button is clicked. It has Regular expression to validate the key is string and value is not null. The key value pair to be inserted if it is right otherwise alert message. . Material Slide contains example to add a value into an object Function removeValue() – to be called when remove button is clicked. It should remove the key term from the object. And the key must be of string. Material Slide contains example to remove a key-value from an object Function print() – to be called when clicks the “display object” button which prints all key and value of the object . Use foreach loop to print. <p>Common Mistakes:</p>

Created class which is wrong
Used 'push' method

2.	<p>Design a HTML page to implement simple calculator as mentioned here:</p> <div data-bbox="333 304 890 824">  </div> <p>The user can input numbers in the first two fields and then click any button. The processed result will be displayed in the "Result" element which can't be altered by the user.</p>
KEY	<p>1. Four functions for each process like addition, subtraction, multiplication and division. 2. Convert the input into number or define the input type as number. 3. Result should be defined as read only And do the process Common Mistakes: Didn't convert into number format Result not declared as read only</p>
3.	<p>Design a form to collect a student application which includes name, gender, mobile number, email id, age, door no, street name, and city. Those details have to be validated and print in the HTML page if all are valid. Otherwise, the user will be notified through warning message. (Note: use DOM model for verification)</p>
KEY	<p>Regular expression pattern to be attached with the input and verify those in JavaScript function using patternmismatch property.</p> <ol style="list-style-type: none"> 1. Name – pattern as discussed in the class 2. Gender – radio button 3. Mobile – discussed in the class 4. Emailed – 1st part -> lowercase alphabets, number and underscore of any length, 2nd part -> '@', 3rd part lowercase alphabets and number of any length, 4th part-> dot(.) and 5th part-> lowercase alphabets of the length 3 or 2. 5. Age – 2 digits of number 6. Door No – 1 to 5 digits of number 7. Street Name – alphabets, space and number 8. City – Alphabets and space. <p>Common Mistakes: Didn't use regular expressions for age, door no, street name and city. Regular expression pattern not attached with input</p>
4.	<p>Design a form to get 'n' strings as input for an array. Also get a string and find the number of occurrences of the string in the array. (Note: you can use only indexof and length of array).</p>

KEY	<ul style="list-style-type: none"> Form should contain two input boxes for 'n' strings (separated by comma) and one substring to search. A button should be there for finding the occurrences. Split the string using split method with a delimiter and assign separated values into an array A JavaScript function should contain a 'for' loop from position 0 to length-1. Apply 'if' condition to match string and substring. Increase the count by 1 when returns true. Print the count at last, if the count is 0 print no traces of the substring. <p>Common Mistakes: Don't know to get 'n' strings as input Static values are used</p>
2.	<p>Create a HTML page along with JavaScript to implement the stack data structure. The form might look as follows. Apply necessary validation and verification for every process.</p> <div data-bbox="336 703 900 956" style="border: 1px solid black; padding: 10px; text-align: center;"> <h3>Stack Implementation</h3> <p>Value: <input type="text"/></p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> PUSH POP TRAVERSE </div> </div>
KEY	<ul style="list-style-type: none"> Have three functions for each button. Declare an array globally. Push- check the value is not null, then use the push method to insert the value. Pop- check the array has any value, then use pop and print the removed value in HTML web page / alert box to show the value Traverse- check the array has any value, then print all values of array in the HTML web page. <p>Common Mistakes: Class is created which is wrong Array used with the pointer 'top' and it is updated for push and pop which is not correct Didn't check for empty stack while pop and traverse</p>
3.	<p>Design a form to get VIT student details which include register number, name, mobile number (India format), CGPA and three favourite course codes. Validate those as per the standard format and display those in HTML page if all are in correct format. Otherwise display the error message about each wrong data.</p>
KEY	<ul style="list-style-type: none"> Form should have text box for all inputs. Should create a JS function which contains pattern for each input. Validate all and print those information in HTML page if they are in right format otherwise error message to be displayed in the HTML page/through alert box <p>Common Mistakes: Didn't use regular expressions</p>