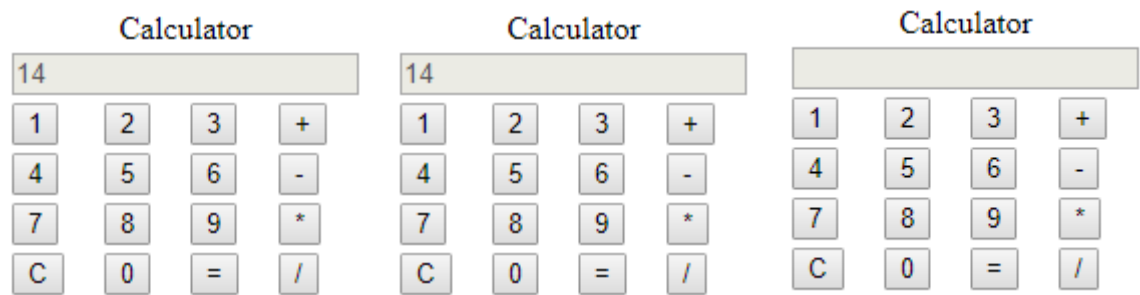**Javascript-practicetest1**

Q1 javascripting calculator

Write a Javascript code to create the following Calculator.

Specifications:

i. The text box in which we enter the number should be disabled i.e input will be provided by clicking on the buttons of a calculator.

ii. appropriate functions like addition, subtraction, Multiplication and division should be performed.

iii. On clicking the button with value "=", the result should be calculated and display on the display screen.(check screenshot)

iv. On clicking the button with value"C", the display screen should be clear.

Calculator			
14			
1	2	3	+
4	5	6	-
7	8	9	*
C	0	=	/

Calculator			
14			
1	2	3	+
4	5	6	-
7	8	9	*
C	0	=	/

Calculator			
1	2	3	+
4	5	6	-
7	8	9	*
C	0	=	/

a. on clicking buttons   b. on clicking "="   c. on clicking "C".

Q2 javascripting form validation

Create a registration form snapshot (Image1) given below

Image 1

Registration Form

First Name: _____

Last Name: _____

Email: _____

User Id: _____

Password: _____

Confirm Password: _____

[Create]

Apply the following validation:

a) all the fields are mandatory. otherwise print message as per image2.

Image2: This validation message appear user click on "create" button.

Registration Form

First Name: _____   Please enter your first name!

Last Name: _____   Please enter your last name!

Email: _____   Please enter your email!

User Id: _____   Please enter your user id!

Password: _____   Please enter your password!

Confirm Password: _____   Please confirm your password!

[Create]

b) Valid Email is required. can contain any letter/digit/ splcharacter before "@" then anycharacter before "." and atleast 2 character after it.

like

abc@gmail.co

abc@gmail.com

123@yahoo.in

123.ab1@abc.com

above all are valid email example. for wrong email print message as given in image3

Image3 : As soon as user enter valid information in the field. validation message change. Use a appropriate event for that.

Registration Form

First Name:	ABC		OK!
Last Name:	Kumar		OK!
Email:	aa	×	Enter a valid email address!
User Id:			Please enter your user id!
Password:			Please enter your password!
Confirm Password:			Please confirm your password!

Create

c) Password and confirm password should match. print message if not matched as given in image 4.

Image 4: As soon as user enter valid information in the field. validation message change. Use a appropriate event for that.

Registration Form

First Name:	ABC	OK!
Last Name:	Kumar	OK!
Email:	aa@gmail.com	OK!
User Id:	123	OK!
Password:	•••	OK!
Confirm Password:	•••	Your passwords don't match!
Create		

If all the particulars are fine then print message as given in image below image5.'

Image5: This message come when user click on the button.

Registration Form

First Name:	ABC	OK!
Last Name:	Kumar	OK!
Email:	aa@gmail.com	OK!
User Id:	123	OK!
Password:	•••	OK!
Confirm Password:	•••	OK!
Create	All the data you entered is correct!!!	

Q3 javascripting looping

A user wants to print the pyramid where he wants to enter the number of rows in input and following as a output.

Enter Element : [Enter the number] [Print Pyramid]

Output should be as folowing as the first digit color should be red and next digit should be blue.

Enter Element : [6] [Print Pyramid]

01
01 02
01 02 03
01 02 03 04
01 02 03 04 05
01 02 03 04 05 06

Also, by using js events when you put mouse on printed pyramid the aqua (color name) should be on pyramid and when you leave mouse coral (color name) should appear on pyramid as shown below.

Enter Element : 6   Print Pyramid

```
01
01 02
01 02 03
01 02 03 04
01 02 03 04 05
01 02 03 04 05 06
```

Enter Element : 6   Print Pyramid

```
01
01 02
01 02 03
01 02 03 04
01 02 03 04 05
01 02 03 04 05 06
```

Q4 javascripting numbers

Ask a number "n" from the user using prompt.

There are three buttons in the body.

Button1: On click it will print "n" terms of Fibonacci series.

Button2: On click it will print first "n" even numbers

Button3:On click it will print first "n" odd numbers

Example:

Input:5

Output of Button1: 0 1 1 2 3

Output of Button2: 0 2 4 6 8

Output of Button3: 1 3 5 7 9

Q5 Javascript strings

Using JavaScript,fetch a string from the user. There are 6 buttons. When 1st button is pressed Count and print the total number of vowels.

When 2nd button is pressed print number of "a", 3rd button :number of "e",4th button: number of "i", 5th button:number of "o" and 6th button: number of "u" in the string(the code should include capital & small letters both).

Example:

Input:

Hello I am a program in jAvascript.

Output:

Total:11

A:5

E:1

I:3

O:2

U:0

Q6 Javascript strings

calculate and display

main page

Daily Fruits Consumption Calories

1. Avocado : 320 cal
2. Banada : 111 cal
3. Grapes : 104 cal
4. Papaya : 215 cal
5. Pineapple : 453 cal

Fruits Selection :

First Item# : [   ] Second Item# : [   ] [Calculate Average Calories]

after filling values from above

Daily Fruits Consumption Calories

1. Avocado : 320 cal
2. Banada : 111 cal
3. Grapes : 104 cal
4. Papaya : 215 cal
5. Pineapple : 453 cal

Fruits Selection :

First Item# : `1`   Second Item# : `2`   Calculate Average Calories

Your Fruit Selections: Avocado and Banada ,and their Average Calories = 215 cal

Q7 Javascript strings

Convert lowercase to uppercase and color red on loosing focus from the input.

Name : _____

After filling text and losing focus

Name : `HELLO`

Q8 Javascript strings

Create a program using JavaScript to find the occurrence of a string in input string.

String : hello

To Find : e

Output

1

Q9 javascript grade

wap in javascript to calculate grades of students

Main page to take input from student

Name :   Enter Your Name

Roll No. :   Enter Your Roll No.

Marks :   Enter Your Marks Out Of

              Print Grade

after filling details on click on " print grade" display recoord below.

Name :	shivansh
Roll No. :	111
Marks :	80

Print Grade

Record	
Name	shivansh
Roll No.	111
Grade	A

grade creteria

>=80--grade A

>=60 --grade B

>=40 -- grade C

less than 40- grade F

Q10 javascript numbers

check whether a number is multiple of 3 or 7.

Enter Element : [Enter the number] Check Multiple

with some input

Enter Element : 33   Check Multiple

No, it is not a multiple of 3 and 7

Q11 javascripting DOM

Write down the suitable code in HTML and JavaScript for the given figure:

a.   When the user click on the append child button one entry should be added after tulip resort

b.   When the user click the remove child button list item Lalit should be removed

c.   Insert a button "replace child" and insert it in the above code. When user clicks on this button it should replace" JW Marriot" with "Ramada Plaza" in the list.

d.   The background color should be pink

Final Output

1. Hayat Regency
2. J W Marriot
3. Forest Hill
4. Tullip Resort
5. Madhu Mahal

Append Child   Remove Child   Replace Child

After Appending:

1. Hayat Regency
2. Ramada plaza
3. Forest Hill
4. Tullip Resort
5. Madhu Mahal

| Append Child | Remove Child | Replace Child |

After Removing

1. Hayat Regency
2. J W Marriot
3. Forest Hill
4. Lalit
5. Tullip Resort

| Append Child | Remove Child | Replace Child |

After Replacing

1. Hayat Regency
2. J W Marriot
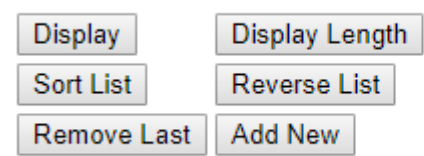3. Forest Hill
4. Lalit
5. Tullip Resort
6. Madhu Mahal

| Append Child | Remove Child | Replace Child |

Q12 javascripting DOM1

Make an array and store the following strings ;(Aditi,Bhavna,Preeti,Gamini,Neha,Vandana)

Design the following buttons :

Display	Display Length
Sort List	Reverse List
Remove Last	Add New

On click of display display all the elements of array as show below:

Students List:
Aditi
Bhavna
Preeti
Gamini
Neha
Vandana

On click of display length it should display the length of array

Sort will sort the list and display it

Reverse will reverse the list and display it

Remove last will remove the last element

Add new will pop up a alert message that will ask user to enter element and add in array and display them.

Q13 javascripting DOM2

Design the page as shown below

AAA

AAA

AAA

AAA

---

add row above	add row below
add Border	Change text color
Remove row	Remove All

Add Row Above - This will add the row above all rows with the next alphabet (in following case it is B B B)

Add Row Below - This will add the row below all rows with the next alphabet (in following case it is C C C)

Add Border- This will add the border among all the the rows

Change text color- it will change the color of the text to the blue

Remove row - it will remove the last row

Remove All- it will remove all the rows

Sample Screenshot:

B B B

A A A

A A A

A A A

A A A

C C C

add row above	add row below
add Border	Change text color
Remove row	Remove All

explanation:

firstly add row above was clicked

then add row below

then change text color

then add border

Q14 Javascript array

Array is the key property in java script. consider the page below and perform the adding and deletion as per requirement.

Main Output

My Array

Enter Number Of Elements to insert : [   ] [Print Array]

Enter Number of Elements to Remove : [   ] [Remove]

Insert Operation:

1. Insert number of elements to insert into array. suppose user enter 5 in input field.
2. Then a prompt box will ask 5 times for the input to enter elements and after last entry array elements must be printed.

My Array

This page says

Enter element

[8|]

[OK] [Cancel]

Enter Number Of Elements to insert : [5]

Enter Number of Elements to Remove : [   ]

Display:

My Array

Enter Number Of Elements to insert : [5] [Print Array]

Enter Number of Elements to Remove : [____] [Remove]

7 7 7 8 8

Delete Operation:(3marks)

1. Enter number of element to remove in 2nd input. suppose someone want to remove only 1 element.
2. a prompt box will ask for the element and then all the occurrence of the element should be remove.

My Array

This page says

Enter element

[7|]

[OK] [Cancel]

Enter Number Of Elements to insert : [5]

Enter Number of Elements to Remove : [1]

7 7 7 8 8

Output:

My Array

Enter Number Of Elements to insert : [5] [Print Array]

Enter Number of Elements to Remove : [1] [Remove]

8,8

Q15 Javascript array

There is an array BRAND with elements "Maruti" "Toyota" "Mahindra" "Audi"

Perform the following operations:

1. Delete Mahindra and add BMW and Mercedes in the array
2. Count the number of elements in the array
3. Arrange the array elements in alphabetic order
4. Merge the BRAND array with MODELS array(MODELS has elements Dzire, Innova, XUV, X6).

NOTE: PERFORM THE OPERATIONS ON THE ORIGINAL ARRAY AT EACH STEP.

Q16 Javascript dom3

Sagar is going to the supermarket with two lists "ITEMS LEFT" & "ITEMS BOUGHT":

ITEMS LEFT

1. Milk
2. Coffee
3. Sugar
4. Tea

ITEMS BOUGHT

1. Bread
2. Eggs

Bought

As soon as he buys the first item from List1 and presses on button "BOUGHT" , the item gets shifted to end of List2. This process should repeat till the List1 becomes empty. Write the HTML Code for this scenario.

ITEMS LEFT

1. Coffee
2. Sugar
3. Tea

ITEMS BOUGHT

1. Bread
2. Eggs
3. Milk

Bought

Q17 Javascript events

Using the concept of JavaScript events, write a program to create an input field (textbox), such that when you leave the input field, a function is triggered which transforms the input text to upper case.

Q18 Javascript strings

Create a java script program to count uppercase letters and Digits in a given String.

for example:

Enter some text:

HELLO 12345   Uppercase   Digit

generate **Alert Box message** when the specific button is clicked.

like above message generate alert box of 5 for Uppercase and 5 for digit.