**JavaScript**

1. **Sample project/scenarios to cover all the topics**

Write JavaScript programs for the below scenarios:

1. Store 10 employee names in an array. Print only the alternative names one below the other.
2. Store 10 assessment marks in an array. Find the average marks and display
3. Program should have two variables initialized with nos. You should add and display the sum only if they are numbers. If they are of any other type you should show a message "Sorry.... Only Nos will be added"
4. Create an external JS file called 'arrops.js' which contains the following functions:

function arrayReverse(arr)

{

//has the code to display

//the array elements in reverse order

}

function arraySize(arr)

{

//has the code to display

//the size of the array

}

Include arrops.js in your html and call both the functions by passing the appr. arguments.

5. Prompt the user to enter two numbers. Add the numbers and alert the sum.

6. Prompt the user to enter his favorite background and foreground color. Receive the values and apply the same as the page’s background and foreground. Keep prompting the user for these details until the user says no.

7. Create a button called "Donate for a cause". Onclick of it, call a method that will prompt you to enter your donation amount and alerts it.

(If the donation is in decimals, it should be rounded off to the nearest integer).

8. Have a function which takes a String as an argument and displays the number of vowels that are there in the String and also displays all the vowels that it found (vowels are a,e,i,o,u). Write the JS and HTML as separate files.

9. An object stores a 'CD' details.

a. CD name

b. CD publisher

c. CD price

A function 'displayAllDetails()' -->should show the CD Name, CD publisher and Final Price (Final Price is calculated as final price+10% tax charges and 3% discount)

10. Create a form with a text box and a button. Ask the user to enter his/her favorite color. Set the same as the background color.

11. Create a calculator application in javaScript where all arithmetic operations would work (Simple arithmetic calculator)

Sample:

|  |  |  |
| --- | --- | --- |
|  | | |
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |
| 0 | + | - |
| \* | / | = |

12. Create a form that could be used for Railway Reservation with appropriate validations (like mandatory, minimum length, range, only alphabets, future date only etc.,)