

WEEK 4 WEB BASICS ASSIGNMENT

Question 1:

Is time to create things in the DOM!!. We want you to create a new 'div' Element and append it as a child of the element that has the 'id = a-1' (the element is in index.html file)

All right our new element needs style. For that, assign to the new element the className 'square!'. Each time the user clicks on the new element it has to respond changing the displayed text 'x' to 'o'

Question 2:

Write a JavaScript program to remove items from a dropdown list.

In order to create the list we are providing you with the array bellow, those items are the ones you need to add to the dropdown list as the select options

You also need to create a button that makes the remove action of the element selected

Append the new list as a child of the element with the 'id = a-2'

Append the button as a child of the element with the 'id = a-2'

```
const colors = [ 'red' , 'white' , 'black' , 'green' , 'orange'];
```

Question 3:

Now lets mix some maths and programming. In the function below (calculate_sphere) write a JavaScript program to calculate the volume and surface area of a sphere.

Take the radius from the input value element with the 'id=radius' in the index.html file

And display the results in the elements with the 'id = volume' and 'id = area' respectively

Hint: the volumen of a sphere is $((4/3) \times \pi \times r^3)$ and the surface area is $(4 \times \pi \times r^2)$

Question 4:

Now in this Exercise we want you to create 3 buttons wich clicks actions are going to hide the respective question above with their aswer and if they are hidden then the click option should be display the question with their respective aswer

Append the 3 buttons to the element with the 'id = a-4' as childrens

This is how should looks the index.html after solving questions

Week 4 Web Basics Assignment

Question 1: if you click the square below the text change 'x' to 'o' or vice versa



Question 2: select any item on the list below and click the remove button to eliminate the item

Red ▼ remove

Question 3: insert the radius of a sphere and press the calculate button to see the results

Radius Volume area calculate

Question 4: press any of those buttons to hide or display the respective question

hide Question-1 hide Question-2 hide Question-3