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Course Code: CSE3002
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Lab 5 - Basic JS exercises -2

Aim – To understand JS by this assignment

Procedure – Analyze the question thoughtfully and then start coding JS.

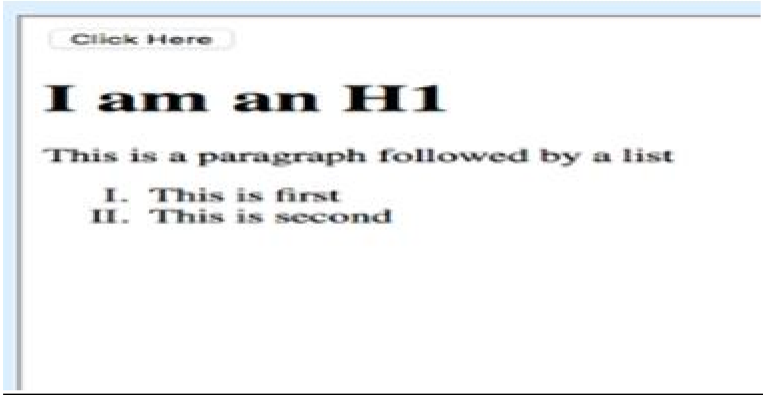
Questions:

1. Make a simple web page that contains an h2 with the word "Hello" a text input box, and a button. When the user types a word or phrase into the input box and presses the button, replace the old h2 with the word entered. Using animation, make the word spin.

2. Make a simple web page that contains a button and a paragraph with the id of count Whenever this button is pressed increment the count by 1 and update the paragraph text. Also update the font size so that as the number gets larger, so does the font.

3. Create an html page with two text input boxes and four buttons. The buttons should be labeled +, -, *, and /. When one of these buttons is pressed you should get the *value* from both text input boxes and add, subtract, multiply, or divide the numbers entered in the text input boxes. The result should be displayed below the buttons. **Note** In order to do math on the values you read from the text input boxes you will need to use Number.parseInt on the value. for example suppose you get a reference to input box 1 using myIn1 = document.querySelector("#in1id"); then the statement value1 = Number.parseInt(myIn1.value) converts the string from the text input box to an integer. In fact most of the time Javascript will do the conversion for you automatically except for addition.

4. Create a page that looks like the following image: The rest of the page must be created using javascript. You must use document.createElement and the appendChild functions.



5. Write a JS code to count all letters in a word

Code:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
    <script src="scriptt.js"></script>
    <link rel="stylesheet" href="styles.css">
</head>
<body>


        <h2>Question 1</h2>

    <h2 id="chn">Hello</h2>

        New word: <input type="text" id="inp"/> <br/>
        <br/>
    <button type="submit" onClick="change()">Submit</button>


<h2>Question 2</h2>
<p id="1"></p>
<button type="submit" onClick="magic()">Do the magic!</button>


<h2>Question 3</h2>
```

```
<input type="text" name="" id="inp1" placeholder="Enter first number :
">
    <br><br>
    <input type="text" name="" id="inp2" placeholder="Enter second
number : ">
    <br><br>
    <button id="btn1" onclick="operate(this.id)">Addition "+"</button>
    <button id="btn2" onclick="operate(this.id)">Subtraction "-
"</button>
    <button id="btn3" onclick="operate(this.id)">Multiplication
"*"</button>
    <button id="btn4" onclick="operate(this.id)">Division "/"</button>
    <br><br>
    <span id="wr"></span>


<h2>Question 4</h2>
<div class="q4"></div>
<button type="submit" onClick="addElement()">Submit</button>

    <h2>Question 5</h2>
    <button type="submit" onClick="count()">Count letters in the
word</button>
    <br/>
    The number of letters in Hello are <span id="result"></span>



</body>

</html>
```

Styles.css

```
#chn:hover{
  transition: 5s;
  transform: rotateY(360deg);
  transform: rotateX(360deg);
}
```

Scriptt.js

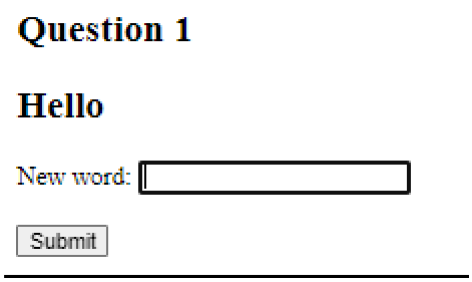
```
function change(){
    input=document.getElementById("inp").value;
    ch=document.getElementById("chn").value;
    // cn=document.getElementById("chn").value;
```

```
    document.getElementById("chn").innerHTML = input;
    // document.getElementById("chn").classList.add("rotate");
}
function isLetter(char){
    return ( (char >= 'A' && char <= 'Z') ||
             (char >= 'a' &&  char <= 'z') );
}

function addElement () {
    const btn = document.createElement("button");
        btn.innerHTML = "Click here";
        btn.addEventListener("click",q4=(e)=>{
            console.log("hi")
        })
        // btn.setAttribute("onclick")
        document.body.appendChild(btn);
        document.write("<br><br>");
        const hd = document.createElement("h1");
        hd.innerHTML = "I am an H1";
        document.body.appendChild(hd);
        const para = document.createElement("p");
        para.innerHTML = "This is a paragraph followed by a list";
        document.body.appendChild(para);
        var list = document.createElement("ol");
        list.setAttribute("id","mylist");
        document.body.appendChild(list)
        list.type = "i";
        var l1=document.createElement("li");
        const node1 = document.createTextNode("This is first");
        l1.appendChild(node1);
        document.getElementById("mylist").appendChild(l1);

        var l2=document.createElement("li");
        const node2 = document.createTextNode("This is second");
        l2.appendChild(node2);
        document.getElementById("mylist").appendChild(l2);
  }

function count(){
 var letter_Count = 0;
 str="Hello";
 for (var position = 0; position < str.length; position++)
 {
    if (isLetter(str.charAt(position)))
      {
      letter_Count += 1;
```

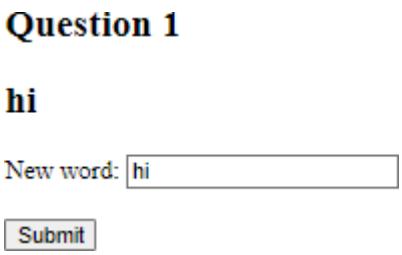
```
      }
  }
  document.getElementById("result").innerHTML=letter_Count;
  console.log(letter_Count);
}
var counter=0;
var fnt=10;
function magic(){
    counter++;
    document.getElementById("1").innerHTML="The counter is "+counter+"
times.";
    fnt++;
    document.getElementById("1").style.fontSize=(fnt+1)+"px";

}


 function operate(clicked_id){
            var first =
Number.parseInt(document.getElementById("inp1").value);
            var second =
Number.parseInt(document.getElementById("inp2").value);
            switch(clicked_id){
                case "btn1":
                    var add = first + second;
                    var wr = document.getElementById("wr");
                    wr.innerHTML = "The result of addition is: "+add;
                    break;
                case "btn2":
                    var sub = first - second;
                    var wr = document.getElementById("wr");
                    wr.innerHTML = "The result of subtraction is:
"+sub;
                    break;
                case "btn3":
                    var mul = first * second;
                    var wr = document.getElementById("wr");
                    wr.innerHTML = "The result of multiplication is:
"+mul;
                    break;
                case "btn4":
                    var div = first / second;
                    var wr = document.getElementById("wr");
                    wr.innerHTML = "The result of division is: "+div;
                    break;
                default:
```

```
                    console.log("Invalid Operation");
            }
        }
```

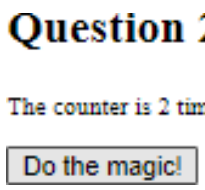
Output:

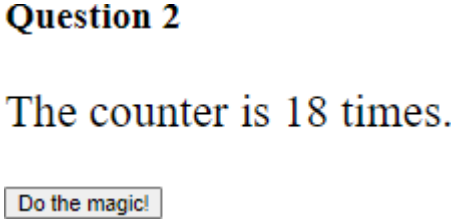


word change:



Spin animation:





Question 3

2

3

Addition "+" Subtraction "-" Multiplication "*" Division "/"

The result of addition is: 5

Question 3

2

3

Addition "+" Subtraction "-" Multiplication "*" Division "/"

The result of subtraction is: -1

Question 3

2

3

Addition "+" Subtraction "-" Multiplication "*" Division "/"

The result of multiplication is: 6

Question 3

2

3

Addition "+" Subtraction "-" Multiplication "*" Division "/"

The result of division is: 0.6666666666666666

Question 4

Submit

I am an H1

This is a paragraph followed by a list

i. This is first
ii. This is second

Question 5

Count letters in the word
The number of letters in Hello are 5

Result:

All the questions were solved by writing codes and the outputs were verified.