

Java Script Assignment

1) Difference between Static and Dynamic Web Pages:

<u>Static Web Page</u>	<u>Dynamic Web Page</u>
1. In static web pages, Pages will remain same until someone changes it manually.	In dynamic web pages, Content of pages are different for different visitors.
2. Static Web Pages are simple in terms of complexity.	Dynamic web pages are complicated.
3. In static web pages, Information are change rarely.	In dynamic web page, Information are change frequently.
4. Static Web Page takes less time for loading than dynamic web page.	Dynamic web page takes more time for loading.
5. In Static Web Pages, database is not used.	In dynamic web pages, database is used.
7. Static web pages does not contain any application program .	Dynamic web pages contains application program for different services.
8. Static web pages require less work and cost in designing them.	Dynamic web pages require comparatively more work and cost in designing them.

2) diff between let var and const:

A `var` variable can be redeclared **and** updated.

A `let` variable be be updated but **not** redeclared.

An example of trying to redeclare a let variable

```
let points = 50;  
let points = 60;
```

However, I can update it:

```
let points = 50;  
points = 60;  
points  
60
```

`const` variables cannot be updated.

```
const key = 'xyz123';  
  
key = 'xyz1234'
```

3) create a calculator using JavaScript html and CSS:

- ```
<!DOCTYPE html>
<html lang = "en">
1. <head>
2. <title> JavaScript Calculator </title>
3.
4. <style>
5. h1 {
6. text-align: center;
7. padding: 23px;
8. background-color: skyblue;
9. color: white;
```

```
10. }
11.
12. #clear{
13. width: 270px;
14. border: 3px solid gray;
15. border-radius: 3px;
16. padding: 20px;
17. background-color: red;
18. }
19.
20. .formstyle
21. {
22. width: 300px;
23. height: 530px;
24. margin: auto;
25. border: 3px solid skyblue;
26. border-radius: 5px;
27. padding: 20px;
28. }
29.
30.
31.
32. input
33. {
34. width: 20px;
35. background-color: green;
36. color: white;
37. border: 3px solid gray;
38. border-radius: 5px;
39. padding: 26px;
40. margin: 5px;
41. font-size: 15px;
42. }
43.
44.
```

```

45.#calc{
46.width: 250px;
47.border: 5px solid black;
48. border-radius: 3px;
49. padding: 20px;
50. margin: auto;
51.}
52.
53.</style>
54.
55.</head>
56.<body>
57.<h1> Calculator Program in JavaScript </h1>
58.<div class= "formstyle">
59.<form name = "form1">
60.
61. <input id = "calc" type ="text" name = "answer">

62. <input type = "button" value = "1" onclick = "form1.answer.value += '1' ">
63. <input type = "button" value = "2" onclick = "form1.answer.value += '2' ">
64. <input type = "button" value = "3" onclick = "form1.answer.value += '3' ">
65. <input type = "button" value = "+" onclick = "form1.answer.value += '+' ">
66.
67.

68. <input type = "button" value = "4" onclick = "form1.answer.value += '4' ">
69. <input type = "button" value = "5" onclick = "form1.answer.value += '5' ">
70. <input type = "button" value = "6" onclick = "form1.answer.value += '6' ">
71. <input type = "button" value = "-" onclick = "form1.answer.value += '-' ">
72.

73. <input type = "button" value = "7" onclick = "form1.answer.value += '7' ">
74. <input type = "button" value = "8" onclick = "form1.answer.value += '8' ">
75. <input type = "button" value = "9" onclick = "form1.answer.value += '9' ">
76. <input type = "button" value = "*" onclick = "form1.answer.value += '*' ">
77.


```

```

<input type = "button" value = "/" onclick = "form1.answer.value += '/' ">
<input type = "button" value = "0" onclick = "form1.answer.value += '0' ">
 <input type = "button" value = "." onclick = "form1.answer.value += '.' ">
 <input type = "button" value = "=" onclick = "form1.answer.value = eval(form1.a
nswer.value) ">

 <input type = "button" value = "Clear All" onclick = "form1.answer.value = ' ' " id
= "clear" >

</form>
</div>
</body>
</html>

```

#### 4)Form

```

<!DOCTYPE html>
<html>
 <head>
 <title>Form Title</title>
 <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/cs
s/bootstrap.min.css">
 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper
.min.js"></script>
 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.j
s"></script>
 <style>
 body{
 font-family:'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
 margin: 0%;
 text-align: center;

```

```

 background: url(https://png.pngtree.com/thumb_back/fh260/back_our/201906
17/ourmid/pngtree-taobao-vector-cartoon-neat-study-desk-table-home-illustration-
table-lamp-image_130341.jpg);

 }
 .header{
 padding: 30px;
 width: 100%;
 text-align: center;
 background:#7abfec;
 color: rgb(17, 24, 24);
 font-size: 20px;
 }
 .content{
 padding: 30px ;
 }
 footer{
 text-align: center;
 width: 100%;
 position: fixed;
 bottom: 0;
 left: 0;
 background-color: black;
 color:blanchedalmond
 }
</style>
</head>
<body>
<form>
 <div class="header">
 <h1>FORM</h1>

 </div>
 <div class="form grop">

 <label for="fname">FirstName:</label>
 <input type="text" class="col-sm-
2" id="fname" name="firstname" placeholder="Your name..">

 </div>
 <div class="form group">

 <label for="lname">LastName:</label>

```

```

 <input type="text" class="col-sm-2" id="Lastname" name="your lastname">

 </div>
 <div class="form-group">

 <label for="email">Email:</label>
 <input type="email" class="col-sm-
2" id="email" placeholder="Enter email" name="email">

 </div>

 <div class="form-group">
 <label for="age">Age:</label>
 <input type=" number" class="col-sm-
2" id="number" placeholder=" number" name="enter num">

 </div>

 <button type="submit" class="btn btn-primary">Submit</button>
 <button type="reset" class="btn btn-primary">Cancel</button>
</form>
<footer>
 <p>Visvesvaraya Technological University(VTU)

 sush.vtu@gmail.com</p>
</footer>

</body>

</html>

```

## ES5

## ES6

- |    |                                                                                                                                            |                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | ECMA script is a trademarked scripting language specification defined by Ecma international. The fifth edition of the same is known as ES5 | ECMA script is a trademarked scripting language specification defined by Ecma international. The sixth edition of the same is known as ES6 |
| 2. | It was introduced in 2009.                                                                                                                 | It was introduced in 2015.                                                                                                                 |
| 3. | It supports primitive data types that are string, number, boolean, null, and undefined.                                                    | In ES6, there are some additions to JavaScript data types. It introduced a new primitive data type 'symbol' for supporting unique values.  |
| 4. | There are only one way to define the variables by using the var keyword.                                                                   | There are two new ways to define variables that are let and const.                                                                         |
| 5. | It has a lower performance as compared to ES6.                                                                                             | It has a higher performance than ES5.                                                                                                      |
| 6. | Object manipulation is time-consuming in ES5.                                                                                              | Object manipulation is less time-consuming in ES6.                                                                                         |
| 7. | In ES5, both function and return keywords are used to define a function.                                                                   | An arrow function is a new feature introduced in ES6 by which we don't require the function keyword to define the function.                |
| 8. | It provides a larger range of community supports than that of ES6                                                                          | It provides a less range of community supports than that of ES5                                                                            |

### **5) Diff btwn ES5 and ES6:**