

Ex. No. 6	JavaScript Styles, Animation
Date	14-09-2022
Web Host Link:	

Video Link:

https://drive.google.com/file/d/1cto96VptSfhjYZp0ZLwkUN45fovY2OmN/view?usp=share_link

Aim

To Create a web application using JavaScript to manipulate the CSS Styles, Animation and Arrays.

Description

[Description here – Explain all the technical concepts used in the exercise]

- ❖ Variables are containers for storing data (storing data values).⌘
- ❖ A JavaScript function is defined with the function keyword, followed by a ⌘ name, followed by parentheses ().
- ❖ An HTML event can be something the browser does, or something a user does.⌘
- ❖ Here are some examples of HTML events:⌘
 - An HTML web page has finished loadingv
 - An HTML input field was changedv
 - An HTML button was clickedv
- ❖ Often, when events happen, you may want to do something.⌘
- ❖ JavaScript lets you execute code when events are detected.⌘
- ❖ Very often when you write code, you want to perform different actions for⌘ different decisions.

- ❖ You can use conditional statements in your code to do this.⌘
- ❖ In JavaScript we have the following conditional statements:⌘
 - Use if to specify a block of code to be executed, if a specified condition is true
 - Use else to specify a block of code to be executed, if the samev condition is false
 - Use else if to specify a new condition to test, if the first condition is falsev
 - Use switch to specify many alternative blocks of code to be executedv

Code:

Program1:

```
<!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>
<link rel="stylesheet" href="style1.css">
<script src="javascript1.js"></script>
<script>
    function bgcolor() {
        var elements = document.getElementById("i").value; var elements2 =
document.getElementById("d1"); elements2.style.backgroundColor = elements;
    }
    function tcolor() {
        var elements = document.getElementById("i2").value; var elements2 =
document.getElementById("d1"); elements2.style.color = elements;
    }
    function ts() {
        var elements = document.getElementById("i3").value; var elements2 =
document.getElementById("d1"); elements2.style.fontSize = elements + "px";
    }
    function bw() {
        var elements = document.getElementById("i4").value; var elements2 =
document.getElementById("d1"); elements2.style.width = elements + "px";
    }
    function bh() {
        var elements = document.getElementById("i5").value; var elements2 =
document.getElementById("d1");
        var elements3 = elements * (3 / 4); elements2.style.height = elements + "px";
elements2.style.paddingTop = elements3 + "px";
    }
    function r() {
        var elements = document.getElementById("i6").value; var elements2 =
document.getElementById("d1"); elements2.style.borderRadius = elements + "px";
    }
</script>
<style>
    * {
        background-color: white;
        margin: 10px;
```

```

}
#d1 {
width: 200px;
height: 100px;
border-width: 2px;
border-color: blue;
background-color: yellow;
color: blue;
border-style: solid;
text-align: center;
margin: auto;
padding-top: 75px;
font-size: 20px;
}
#i4 {
background-color: white;
}
#i5 {
background-color: white;
}
input[type='range'] {
-webkit-appearance: none;
background-color: blue;
height: 6px;
}
</style>
</head>
<body>
<div id='d1'>Welcome to Text</div><br><br>
Background Color:<input type="color" id="i" onchange="bgcolor()"><br><br>
Text Color:<input type="color" id="i2" onchange="tcolor()"><br><br>
Text size:<select id="i3" onchange="ts()">
<option value="20">20</option>
<option value="30">30</option>
<option value="40">40</option>
<option value="50">50</option>
<option value="60">60</option>
<option value="70">70</option>
</select><br><br>
Box Width :<input type="text" id="i4" onchange="bw()"><br><br>
Box Height :<input type="text" id="i5" onchange="bh()"><br><br>
Box radius:<input type="range" id="i6" onchange="r()" min="0" max="100">
</body>
</html>

```

Output:

Welcome to Text

Background Color:

Text Color:

Text size:

Box Width:

Box Height:

Box radius:

Program2:

```
<!DOCTYPE html>

<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script>
      var timer=null;
      var element=null;
      var element1 = null;
function init(){
  element = document.getElementById('box');
  element.style.position = 'relative';
  element.style.left = '5px';
}
function start(){
  element.style.left = parseInt(element.style.left)+5+"px";
  if(parseInt(element.style.left) >= 1200){
    document.getElementById('danger').style.display="block";
    clearTimeout(timer);
  }
  else{
    timer = setTimeout(start,100);
  }
}
function stop(){
  clearTimeout(timer);
}

function reset(){
  init();
  clearTimeout(timer);
  document.getElementById('danger').style.display="none";
    </script>
  </head>
</html>
```

[illegible]

```
Fr7t+lt8A34iIAiIgCIiAIiIAiIgCIiAIiIAiIgCIiAIiIAiIgCaz0ELZiq19BmKjNZfOGvr1YgFnwClr8XT1yg/FrqFtlB06rC3qEqMDSvfo6d9R
fIt7E3I3dusRAK/A6epyJcsWJyLcsdCx03265SngaQykU6YKiy2RRkF72XTTX1xEAp8Ep6fF0/N1HmL5pta4000AHqEJg6VrCnTC2t1CKFtZha1t
3nN7R7YiAZqqAqQQCPfipAII7LTGMHTC9GEQUwMoQIuQKd4y2taViA0gTKB1XKEyhcoyhdPnt2aDTwEpUwVNsxZEYUmrFkU11G4NcajTriIBbUwFI
hgadMhgoYFFIYL8kHTUDql1DDopYoiITvKqFLWG17b4iAbMREAREQBBERAEREAREQBERAP//Z" width="200" height="150">

</div>
<div id="box1" style="margin-left: 140px; color: blue ;height :400px; background-color: blue;" >hi

</div>
<div width="200" height="150"></div>

<div id="danger" style="display:none;position: absolute; top:300px;left:1300px;color:white;background-
color: red;width:50px;height: 50px;">

    Danger
</div>

<br><br>
<div id="value" style="background-color:blue;padding-left: 400px;"></div>
<button onclick="start()">Start</button>
<button onclick="stop()">Stop</button>
<button onclick="reset()">reset</button>
</body>
</html>
```

Output:





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Result

Application using JavaScript to manipulate the CSS Styles, Animation and Arrays was created successfully.