

## JavaScript Exercises

1. Write a javascript program to show date and time in this format: 2020-08-20 10:12:30

```
unit11 q.no.1.html > html > body > script
1 <html>
2 <head>
3   <title>Show date and time </title>
4 </head>
5 <body>
6   <script>
7     // Get current date and time
8     var currentDate = new Date();
9     var year = currentDate.getFullYear(); // Format date components
10    var month = ('0' + (currentDate.getMonth() + 1)).slice(-2); // Adding 1 as months are 0-based
11    var day = ('0' + currentDate.getDate()).slice(-2);
12    var hours = ('0' + currentDate.getHours()).slice(-2);
13    var minutes = ('0' + currentDate.getMinutes()).slice(-2);
14    var seconds = ('0' + currentDate.getSeconds()).slice(-2);
15
16    var formattedDateTime = year + '-' + month + '-' + day + ' ' + hours + ':' + minutes + ':' + seconds; // Date and time string
17    document.write(formattedDateTime); //Display date and time string
18
19  </script>
20 </body>
21 </html>
```

Output:

2024-04-03 01:16:03

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2. WAP in show javascript events for the following:

a. Change the Text on <H1> when you click on that <H1> element. (Hint: use innerHTML

property to set your text)

b. When you click on the button, display date and time.

```

<> unit11 q.no.2.html > ...
1  <html>
2  <head>
3  |   <title> JavaScript Events </title>
4  </head>
5
6  <body>
7  <h1 id="myH1" onclick="changeText()">Click me!</h1>
8  <button onclick="displayDateTime()">Date and Time</button>
9  <p id="dateTime"></p>
10
11 <script>
12 function changeText() {
13 |   document.getElementById("myH1").innerHTML = "You clicked me!";}
14 function displayDateTime() {
15 |   var date = new Date();
16 |   document.getElementById("dateTime").innerHTML = date;}
17 </script>
18
19 </body>
20 </html>
21

```

Output:

# Click me!

Date and Time

Wed Apr 03 2024 01:28:59 GMT+0545 (Nepal Time)

3. Write a Javascript program to create function and call them in mouse events:

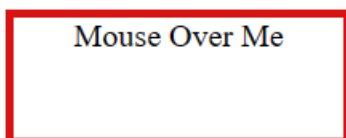
- Create mOver() function to show Thank You Text in the innerHTML of div element, and call this function on onmouseover event
- Create mOut() function to show Mouse Over Me Text in the innerHTML of div element, and call this function on onmouseout event.

```

<> unit11 q.no.3.html > ...
1  <html>
2    <head>
3      <title>Mouse over and out</title>
4    </head>
5
6    <body>
7      <div id="myDiv" onmouseover="mOver()" onmouseout="mOut()"
8        style="width:165px;height:60px;border:4px solid
9        rgb(219, 18, 18);text-align:center">Mouse Over Me</div>
10   <script>
11
12     function mOver() {
13       document.getElementById("myDiv").innerHTML = "Thank You";}
14
15     function mOut() {
16       document.getElementById("myDiv").innerHTML = "Mouse Over Me";}
17   </script>
18
19   </body>
20 </html>
21

```

Output:



When I move cursor over the text it displays:



4. Write a JavaScript program to change the background color of a paragraph.

```
unit11 q.no.4.html > html
1 <html>
2 <head>
3   <title>paragraph color change. </title>
4 </head>
5 <body>
6   <p id="paragraph">Hello, i am Apekshya, currently studying javascript!</p>
7   <button onclick="document.getElementById('paragraph').style.backgroundColor='red'">Change Color</button>
8 </body>
9 </html>
```

Output:

Hello, i am Apekshya, currently studying javascript!

Change Color

After I click to 'change color' button:

Hello, i am Apekshya, currently studying javascript!

Change Color

5. Write a JavaScript program to validate following.

- Check whether a given value type entered in text box is NaN or not.
- Check whether two inputs entered in password and confirm password text fields are same or not.

```

<> unit11 q.no.5.html > html > body > h3
1  <html>
2  <head>
3  |   <title>Inputs entered in password and confirm password text fields are same or not.</title>
4  <script>
5  function checkNaN() {
6  |   var value = document.getElementById('inputBox').value;
7  |   if (isNaN(value)) {
8  |       alert('The entered value is NaN.');
```

```
9  |   } else {
```

```
10 |       alert('The entered value is a number.');
```

```
11 |   }
```

```
12 | }
```

```
13
```

```
14 function checkPasswords() {
```

```
15 |   var password = document.getElementById('password').value;
```

```
16 |   var confirmPassword = document.getElementById('confirmPassword').value;
```

```
17 |   if (password === confirmPassword) {
```

```
18 |       alert('Passwords match.');
```

```
19 |   } else {
```

```
20 |       alert('Passwords do not match.');
```

```
21 |   }}
```

```
22 }
```

```
23 </script>
```

```
24 </head>
```

```
25 <body>
```

```
26
```

```
27 <!-- for NaN -->
```

```
28 <h3>NaN or not</h3>
```

```
29 <input type="text" id="inputBox" placeholder="Enter a value">
```

```
30 <button onclick="checkNaN()">Check NaN</button>
```

```
31
```

```
32 <!-- for matching passwords -->
```

```
33 <h3>passwords same or not</h3>
```

```
34 <label for="password">Password:</label>
```

```
35 <input type="password" id="password">
```

```
36 <label for="confirmPassword">Confirm Password:</label>
```

```
37 <input type="password" id="confirmPassword">
```

```
38 <button onclick="checkPasswords()">Check Passwords</button>
```

```
39
```

```
40 </body>
```

```
41 </html>
```

```
42
```

Output:

NaN or not

5

Passwords same or not

Password:  Confirm Password:

And

This page says

The entered value is a number.

OK

**NaN or not**

Check NaN

**Passwords same or not**

Password:

Confirm Password:

Check Passwords

**This page says**

Passwords match.

OK