

## Exercise on Overview of BOM

1. Write a JavaScript program to print the contents [ Whole ] of the current window.

## Exercise on Introduction to the Document Object Model (DOM)

1. Here is a sample html file with a submit button. Now modify the style of the paragraph text through javascript code.

Sample HTML file :

```
<!DOCTYPE html>
<html>
<head>
<meta charset=utf-8 />
<title>JS DOM paragraph style</title>
</head>
<body>
<p id ='text'>JavaScript Exercises - w3resource</p>
<div>
<button id="jsstyle"
onclick="js_style()">Style</button>
</div>
</body>
</html>
```

Clicking on the button the font, font size, and color of the paragraph text will be changed.

2. Write a JavaScript function to get the values of First and Last name of the following form.

Sample HTML file :

```
<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
<title>Return first and last name from a form - w3resource</title>
```

```

</head><body>
<form id="form1" onsubmit="getFormvalue()">
First name: <input type="text" name="fname" value="David"><br>
Last name: <input type="text" name="lname" value="Beckham"><br>
<input type="submit" value="Submit">
</form>
</body>
</html>

```

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

Sample HTML file :

```

<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
<title>Remove items from a dropdown list</title>
</head><body><form>
<select id="colorSelect">
<option>Red</option>
<option>Green</option>
<option>White</option>
<option>Black</option>
</select>
<input type="button" onclick="removecolor()" value="Select and Remove">
</form></body></html>

```

**4.** Write a JavaScript program to highlight the bold words of the following paragraph, on mouse over a certain link.

### **Assignment on Working with Forms**

1. Design a registration form and validate its field by using javascript.

### **Exercise on Implementing Functions**

1. Write a JavaScript function that returns a passed string with letters in alphabetical order. *Example string* : 'webmaster'  
*Expected Output* : 'abeemrstw'
2. Write a JavaScript function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.  
*Example string* : 'the quick brown fox'  
*Expected Output* : 'The Quick Brown Fox '
3. Write a JavaScript function to convert an amount to coins.  
*Sample function* : amountToCoins(46, [25, 10, 5, 2, 1])  
Here 46 is the amount. and 25, 10, 5, 2, 1 are coins.  
*Output* : 25, 10, 10, 1
4. Write a JavaScript function to find the first not repeated character.  
*Sample arguments* : 'abacddbec'  
*Expected output* : 'e'
5. Write a JavaScript function which says whether a number is perfect.

According to Wikipedia : In number theory, a perfect number is a positive integer that is equal to the sum of its proper positive divisors, that is, the sum of its positive divisors excluding the number itself (also known as its aliquot sum). Equivalently, a perfect number is a number that is half the sum of all of its positive divisors (including itself).

*Example* : The first perfect number is 6, because 1, 2, and 3 are its proper positive divisors, and  $1 + 2 + 3 = 6$ . Equivalently, the number 6 is equal to half the sum of all its positive divisors:  $(1 + 2 + 3 + 6) / 2 = 6$ . The next perfect number is  $28 = 1 + 2 + 4 + 7 + 14$ . This is followed by the perfect numbers 496 and 8128.