

PRACTICAL 5**Aim : Write JavaScript code for**

- a. Demonstrating different JavaScript Objects such as String, RegExp, Math, Date
- b. Demonstrating different JavaScript Objects such as Window, Navigator, History, Location, Document,
- c. Storing and Retrieving Cookies

Solution :**A. Demonstrating different JavaScript Objects such as String, RegExp, Math, Date**

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String Methods</h2>

<p>Search a string for "W3Schools", and display the position of the match:</p>

<p id="demo"></p>

<script>
let text = "Visit W3Schools!";
let n = text.search("W3Schools");
document.getElementById("demo").innerHTML = n;
</script>
</body>
</html>
```

Array object code:

```
<!DOCTYPE html>
<html>
```

```
<head>
<title>Array object Demo</title>
<script language="javascript">
    var cars=["Saab","Volvo","BMW"];
    document.write("Array length is: "+cars.length+"<br>");
    document.write(cars.join["*"]);
    cars.push("Opel");
    document.write("After insert: "+cars.toString());
    cars.pop();
    document.write("After delete: "+cars.toString());
    cars.sort();
    document.write("After sort: "+cars.toString());
    cars.reverse();
    document.write("After reverse: "+cars.toString());
</script>
</head>
<body>
</body>
</html>
```

Boolean object code:

```
<!DOCTYPE html>
<html>
<head>
<title>Boolean object demo</title>
<script language="javascript">
function myFunction()
{
document.getElementById("demo").innerHTML = Boolean(10 > 9);
}
</script>
</head>
<body>
<p>Display the value of Boolean(10 > 9):</p>
<button onclick="myFunction()">Try it</button>
<p id="demo"></p>
```

```
</body>
```

```
</html>
```

Date object code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Date object demo </title>
```

```
<script language="javascript">
```

```
var currentDate =new Date();
```

```
document.write("Date is:");
```

```
document.write(currentDate.getMonth()+"/"+currentDate.getDate()+"/"+currentDate.getFull  
Year
```

```
()+"<br>");
```

```
document.write("Time is:");
```

```
document.write(currentDate.getHours()+":"+currentDate.getMinutes
```

```
()+"."+currentDate.getSeconds());
```

```
</script>
```

```
<head>
```

```
<body>
```

```
</body>
```

```
</html>
```

Function object code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> function object demo</title>
```

```
<script language="javascript">
```

```
addBraces=new Function("s","return[''+s+'']");
```

```
document.write(addBraces("this"));
```

```
document.write(addBraces("is"));
```

```
document.write(addBraces("a"));
```

```
document.write(addBraces("test"));
```

```
</script>
```

```
</head>
```

```
<body>
```

```
</body>
```

```
</html>
```

Math object code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>math object</title>
```

```
<script language="javascript">
```

```
document.write("Random number: " +Math.random(3)+"<br>");
```

```
document.write("Minimum number: "+Math.min(150,0,-29,60)+"<br>");
```

```
document.write("Maximum number: "+Math.max(600,120,129,89)+"<br>");
```

```
document.write("Round(47.6): "+Math.round(47.6)+"<br>");
```

```
document.write("Ceil(4.4): "+Math.ceil(4.4)+"<br>");
```

```
document.write("Floor(4.7): "+Math.floor(4.7)+"<br>");
```

```
document.write("Square root of 2: "+Math.SQRT2+"<br>");
```

```
document.write("Square root of 1/2: "+Math.SQRT1_2+"<br>");
```

```
document.write("2 raise to 3: "+Math.pow(2,3)+"<br>");
</script>
</head>
<body>
</body>
</html>
```

Number object demo:

```
<!DOCTYPE html>
<html>
<head>
<title>Number object Demo</title>
<script language="javascript">
document.write("Maximum value: "+Number.MAX_VALUE;);
document.write("Minimum value: "+Number.MIN_VALUE;);
var num1 = 5.56789;
document.write(num1.toFixed(2));
var num2 = 13.3714;
document.write(num2.toPrecision(2));
document.write(num1.toString());
</script>
</head>
<body>
</body>
</html>
```

Object object code:

```
<!DOCTYPE html>
<html>
<head>
<title> object demo </title>
<script language="javascript">
myobj1=new Object(123);
document.write(myobj1.toString()+"<br>");
myobj2=new Object("hello world");
document.write(myobj2.valueOf());
</script>
</head>
<body>
</body>
</html>
```

String object demo:

```
<!DOCTYPE html>
<html>
<head>
<title>String object Demo</title>
<script language="javascript">
var txt = "ABCDEFGHJKLMNOPQRSTUVWXYZ";
document.write(txt.length); document.write("\n");
var x = 'It\'s alright';
var y = "We are the so-called \"Vikings\" from the north.";
document.write(x + "<br>" + y); document.write("\n");
```

```
var str = "Please locate where 'locate' occurs!";
var pos = str.indexOf("locate");
document.write(pos); document.write("\n");
var str = "Please locate where 'locate' occurs!";
var pos = str.lastIndexOf("locate");
document.write(pos); document.write("\n");
var str = "Please locate where 'locate' occurs!";
var pos = str.search("locate");
document.write(pos); document.write("\n");
var str = "Apple, Banana, Kiwi";
var res = str.slice(7, 13);
document.write(res); document.write("\n");
var str = "Apple, Banana, Kiwi";
var res = str.substring(7, 19);
document.write(res); document.write("\n");
var str = "Please visit Microsoft!";
var n = str.replace("Microsoft", "SIES(Nerul)");
document.write(n); document.write("\n");
var text1 = "Hello World!";
var text2 = text1.toUpperCase();
document.write(text2);
var text1 = "Hello World!";
var text2 = text1.toLowerCase();
document.write(text2);
var text1 = "Hello";
var text2 = "World";
text3 = text1.concat(" ", text2);
document.write(text3);
var str = "HELLO WORLD";
document.write(str.charAt(0));
var str = "HELLO WORLD";
document.write(str.charCodeAt(0));
var txt = "a,b,c,d,e";
var arr=txt.split(",");
document.write(arr[0]+" "+arr[2]);
</script>
</head>
<body>
</body>
</html>
```

RegEx object demo:

```
<!DOCTYPE html>
<html>
<head>
<title>RegExp object Demo</title>
<script language="javascript">
    var str = "Visit W3Schools!";
    var n = str.search(/w3Schools/i);
    document.write(n);
    var str = "Visit Microsoft!";
```

```
var res = str.replace(/microsoft/i, "W3Schools");
document.write(res);
text = "The best things in life are free!";
document.write(/e/.test(text));
text = "The best things in life are free!";
document.write(/e/.exec(text));
</script>

</head>
<body>
</body>
</html>
```