CLIENT SIDE SCRIPTING (22519)

Practical No. 03: Develop program to implement Arrays
Roll No.: 220447

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1) Program to create, read and display the array using literal and constructor.

```
var years = [2001,2002,2003,2004,2005,2006]; //literal
var arr = new Array(6);    //constructor
var arr2 = ['good','shubh','khayr'];
for(let year of years){
    document.write(year + "<br>");
}
document.write("<hr>");
for(let i=0;i<6;i++){
    arr[i] = i*10;
    document.write(arr[i] + "<br>" );
}
document.write("<hr>")
for(let i=0;i<arr2.length;i++){
    document.write(arr2[i] + "<br>");
}
```

```
2001
2002
2003
2004
2005
2006
---
0
10
20
30
40
50
---
good
shubh
khayr
```

2) Write a program to sort an array.

```
<script>
  var arr = ["Chrome","Android","MacOS","Windows","Linux"];
  document.write("Array before sorting : " + arr + "<br>");
  arr.sort();
  document.write("Array after sorting : " + arr + "<br>");
  var numArray = [20,10,15,3];
  document.write("Number Array before sorting : " + numArray + "<br>");
  numArray.sort(function(a,b){ return a-b;});
  document.write("Number Array after sorting : " + numArray + "<br>");
</script>
```

```
Array before sorting : Chrome,Android,MacOS,Windows,Linux
Array after sorting : Android,Chrome,Linux,MacOS,Windows
Number Array before sorting : 20,10,15,3
Number Array after sorting : 3,10,15,20
```

3) Write a program to print the length of array.

```
var years = [2001,2002,2003,2004,2005,2006]; //literal
console.log("Length of array : "+ years.length);
```

```
Length of array : 6
```

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4) Write a program to display sparse array.

```
<script>
  var arr = new Array(10);
  arr[0] = 47;
  arr[4] = 100;
  arr[9] = 230;
  document.write(arr);
</script>
```

47,,,,100,,,,,230

5) Write a program to show the usage of splice method.

```
let arr = [10,20,30,40,50,60];
console.log("Original Array : " + arr);
arr.splice(2,0,25,27);
console.log("After splicing (2,0,25,27) : " + arr);
arr.splice(2,2);
console.log("Again splicing (2,2) : " + arr);
```

```
Original Array : 10,20,30,40,50,60
After splicing (2,0,25,27) : 10,20,25,27,30,40,50,60
Again splicing (2,2) : 10,20,30,40,50,60
```

6) Write a program to insert element in an array using different method.

```
let arr = [10,20,30,40,50,60];
console.log("Original Array : " + arr);
arr.push(70,80,90);
console.log("Inserting at end using push : ", arr);
arr.unshift(0,5);
console.log("Inserting at start using unshift : ", arr);
arr.splice(6,0,47);
console.log("Inserting in between using splice : ", arr);
```

```
Original Array : 10,20,30,40,50,60
Inserting at end using push :  ▶ (9) [10, 20, 30, 40, 50, 60, 70, 80, 90]
Inserting at start using unshift :
▶ (11) [0, 5, 10, 20, 30, 40, 50, 60, 70, 80, 90]
Inserting in between using splice :
▶ (12) [0, 5, 10, 20, 30, 40, 47, 50, 60, 70, 80, 90]
```

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7) Write a program to delete the element from the array using different method.

```
let arr = [10,20,30,40,50,60];
console.log("Original Array : " + arr);
arr.pop();
console.log("Deleting at end using pop : ", arr);
arr.shift();
console.log("Deleting at start using shift : ", arr);
arr.splice(1,2);
console.log("Deleting in between using splice : ", arr);
delete arr[1];
console.log("Deleting element at specific position : ", arr);
```