

## Q.Methods of Strings and Arrays

### →1.String

concat ()-> joins two or more strings

```
let str1 = "Hello ";  
let str2 = "world!";  
let res = str1.concat(str2);//Hello world!
```

split()-> splits string into two array of substrings

```
let str = "How are you?";  
let str2 = str.split(" ");//How,are,you?
```

slice() -> extracts a part of string and returns as new string

```
let str = "Hello world!";  
let res = str.slice(0, 5);//Hello
```

search()-> searches for a specified string or regex and return the position matched

```
let str = "Chaitali's Assignment";  
let n = str.search("Chaitali");
```

replace() -> replaces the given string

```
let str = "its thursday!";  
let res = str.replace("thursday", "sunday");//its sunday!
```

match() -> searches the string for match and returns the match

```
let str = "The rain in SPAIN stays mainly in the plain";  
let res = str.match(/ain/g);//ain,ain,ain
```

substring()-> extract the character from string between two given indices

```
let str = "Hello world!";  
let res = str.substring(1, 4);//ell
```

### 2.Array

sort()-> sorts the elements of the array

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];  
fruits.sort();//Apple,Banana,Mango,Orange
```

toString() -> converts the array to string

```
let fruits = ["Banana", "Orange", "Apple", "Mango"];  
let x = fruits.toString();//Banana,Orange,Apple,Mango
```

some() ->checks if elements of array pass the test

```
let ages = [3, 10, 18, 20];
```

```
function checkAdult(age) {  
  return age >= 18;  
}
```

```
function myFunction() {  
  document.getElementById("demo").innerHTML = ages.some(checkAdult);//true
```

reduce ()-> reduces the values of arrays to a single value(left to right)

```
let numbers = [175, 50, 25];
```

```
document.getElementById("demo").innerHTML = numbers.reduce(myFunc);
```

```
function myFunc(total, num) {  
  return total - num;  
} //100
```

reduceRight() -> reduces the values of arrays to a single value(right to left)

```
var numbers = [175, 50, 25];
```

```
document.getElementById("demo").innerHTML = numbers.reduceRight(myFunc);
```

```
function myFunc(total, num) {  
  return total - num;  
} // -200
```

map() -> creates a new array with new array calling a function for each element

```
var numbers = [4, 9, 16, 25];
```

```
var x = numbers.map(Math.sqrt)
```

```
document.getElementById("demo").innerHTML = x; // 2,3,4,5
```