

\* Console.log ( ) :

To write (log) a message on the console.

```
Console.log("Apna College");
```

```
Console.log(123);
```

```
Console.log("Ro", "HI", "T");
```

\* Linking JS File :-

1] `<Script src = "app.js" > </script>`

2] Inline JS:

```
<button onClick = "alert('Hey there! greeting from codedamn')"  
> Welcome Message </button>
```

3] `<script>`

```
    alert( );
```

```
</script>
```

\* Template Literal:

They <sup>are</sup> ~~add~~ used to add embedded expression in a string

e.g let a = 5, b = 5;

```
Console.log("Sum is ${a+b}");
```

① Calculate

② embeded in string

## \* Conditional Statement :

if-else

nested if-else

switch

~~else-if statement~~

1] if statement :

```
if (condition)
```

```
{
```

```
    // Do something
```

```
}
```

2] else-if statement

```
if (condition)
```

```
{
```

```
    // Do something
```

```
}
```

```
else if (condition)
```

```
{
```

```
    // Do something else
```

```
}
```

```
else {
```

```
    // Do something else
```

```
}
```

(Optional)

3) if-else

```
if (condition)
```

```
{
```

```
    // Do something
```

```
}
```

```
else {
```

```
    // Do something else
```

```
}
```

4] Nested if-else

- nesting is writing if-else

inside if-else statement

- in can many level

```
if ( )
```

```
{
```

```
    if ( )
```

```
{
```

```
}
```

```
    else {
```

```
}
```

```
}
```

```
else {
```

```
}
```



\* Truthy & Falsy Value :

Falsy : false, 0, -0, 0n (BigInt value), "", null, undefined, NaN

True : Everything else

\* Switch statement :

Used when we have some fixed values that we need to compare to.

e.g let col = "red";

```
switch (col)
```

```
{
```

```
  case "red":
```

```
    console.log("red");
```

```
    break;
```

```
  case "green"
```

```
    console.log("green");
```

```
    break
```

```
  ;
```

```
  default :
```

```
    console.log("Broken light");
```

```
}
```

\* Alert :  
Alert display an alert message on the page.  
`alert("message");`

\* Prompt :  
Prompt display a dialog box that asks user for some I/P.  
`Prompt("Please enter your roll no");`

`Console.error();`

`Console.warn();`

### \* String Method \*

\* String is ~~set~~ sequence of characters.

\* Method :- Actions that can be performed on object.

\* Format : `StringName.method();`

\* Trim method :-

`trim()` remove whitespace from both end of string & return new one.

e.g. `let s = " ROHIT ";`  
`s.trim()` → O/P: "ROHIT";



\* String are Immutable in JS :

+ No change can be made to string

+ Whenever we do try to make a change, a new string is created  
 & old one remain same.

\* ToUpperCase() & ToLowerCase() :-

e.g 1] let str1 = Rohit str1.toUpperCase() o/p : ROHIT

e.g 2] let str2 = Rohit str2.toLowerCase() o/p : rohit

\* String method with argument:

Argument is some value that we pass to the method.

format :

str.method(<sup>arg</sup>value);

1) ~~index~~ indexOf() :

Return the first index of occurrence of some value in string, or give -1 if not found.

e.g let str = "ILOveCoDING";

str.indexOf("I"); //0

Method chaining:

Using one method after another.

Order of execution will be left to right.

~~str.toUpperCase()~~ str.toUpperCase().trim();

ii) Slice():  
Return a part of the original string as a new string.

```
let str = "Ilovecoding";  
str.slice(5); // coding  
str.slice(1,4); // love
```

end index is non-exclusive

iii) Replace():  
Search a value in the string & return a new string with the value replaced.

```
let a = Rohit  
a.replace("R", "T");  
o/p: ToHit
```

iv) Repeat():

Return a string with a number of copies of a string.

```
let a = fruit  
a.repeat(3);  
o/p: fruit-11-11
```

\* Array: Collection of items of <sup>different</sup> ~~same~~ type.

```
let student = ["Rohit", "Ram", "Anjun"];
```

Access through index:

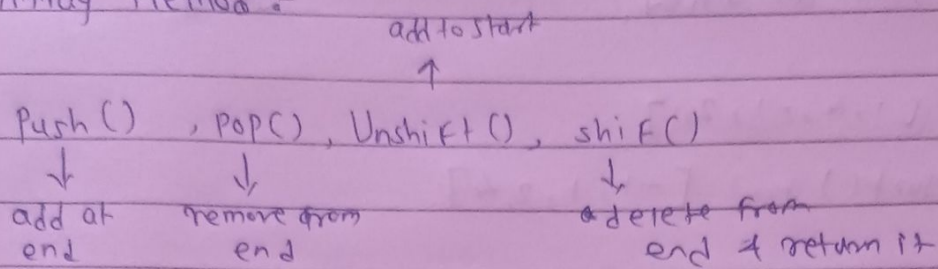
```
student[0];
```

```
student.length;
```

Array is mutable



## Array Method :-



i) `indexOf()` : Return index of something  
`arr.indexOf(1);`

ii) `includes()` : Search for value  
`arr.includes(1);`

iii) `concat` : Merge 2 array  
`arr1.concat(arr2);`

iv) `reverse` : reverse an array  
`arr.reverse();`

v) `slice()` : Copies a portion of an array.

`arr.slice(5);`

`arr.slice(2,3);`

vi) `splice()` : remove / replace / add element in place.  
`splice(start, deletecount, item0...itemn)`

e.g : `color = ["red", "yellow", "blue", "orange", "pink", "white"];`

`color.splice(4);` // pink, white

`color.splice(0,1);` // red

`color.splice(0,1, "black", "grey");` // yellow.

vii)

Sort : Sort an array.

Number  
↓  
String

```
num = [1, 4, -1, 2, ]
```

```
num.sort();    [-1, 1, 2, 4]
```

\*

Array Reference :

```
[1] == [1]    → false
```

```
[1] === [1]   → false
```

reference variable represent not a value.

\*

Const Arrays:

```
const arr = [1, 2, 3];
```

copy not allowed

\*

Nested Array :

```
let num = [[1, 2], [2, 3], [3, 4]];
```