

var a; ---> declaring.

var a= 10 ----> assigning

a= 20----> re-assigning

mutability and immutability

var a = [1,2,3]; → mutability / Can be change. → address [1,2,3]

var str = "masai"; → immutability / Cannot be change

Var str = "masai"  
→ "masai"

scope

1. block scope.
2. global scope.
3. local or function scope.

}

}

var is global scope

let , const --> ES6

let, const are block scope.

var a = 10

var a = 20

hoisting---> Js will have access to all the variable declaration and function declaration before the code execute.

→ console.log(a)  
var a;

Execution Context

memory  
Phase

Code  
execution

~~var~~ a  
name = {  
 console.log("1")  
}

name()

function name(){  
 console.log("1")  
}

object ---> key and value pair

keys are always unique.

let obj = {

a : ~~1~~ 2.

name : "mahesh"

}

obj["a"] = 2

obj.name = "mahesh"

Constructor → Custom object

```
let Stud1 = {  
  name:  
  age:  
  {  
    city:  
    state:  
  }  
}
```

```

ex3.html > script > newProperties
    age: "17",
    batch: "pt_web-13",
  };

let student2 = {
  name: "vishal",
  age: "16",
  batch: "pt_web-13",
};

function newProperties(c, s) {
  this.city = c;
  this.state = s;
}
// call --> object
newProperties.call(student1, "hyderabad", "telangana");

console.log(student1);

newProperties.call(student2, "patna", "bihar");

console.log(student2);
</script>

```

call → new properties  
to already created.  
with the help of c.f

Elements Console Sources Network >> 1 Issue: 1

top Filter Default levels

- 2 messages
- 2 user mes...
- No errors
- No warnings
- 2 info
- No verbose

index3.html:71

```
{name: 'ashish', age: '17', batch: 'pt_web-13', city: 'hyderabad', state: 'telangana'}
```

index3.html:75

```
{name: 'vishal', age: '16', batch: 'pt_web-13', city: 'patna', state: 'bihar'}
  age: "16"
  batch: "pt_web-13"
  city: "patna"
  name: "vishal"
  state: "bihar"
  [[Prototype]]: Object
```



Constructor function  $\longrightarrow$  custom object

Call, apply, bind

We can add new properties to  
the already present object with  
the help of call, apply, bind.

call → all new properties will be  
separated by ,

apply → ["masai", "course"]

bind → all new properties will be  
separated by ,

↳ we need to call the function in order to add  
properties.

object

adding function inside the object---> method.

constructor function ---> custom object.

method---> call, apply, bind.