

ES6 Part - 2



Classes

```
//The es5 way
var Animal = function(name) {
     this.name = name;
  Animal.prototype.says = function (sound) {
     console.log(sound);
  };
 var lion = new Animal("Lion");
 lion.says("Grrrrrrrrrrr!!!");
```



classes

```
class AnimalES6 {
  constructor(name) {
     this.name = name;
  says(sound) {
     console.log(sound);
var lionES6 = new AnimalES6("Lion");
lionES6.says("Grrrrrrrrrr!!!");
```



Inheritence

Inheritance in es6 is done with the help of extends keyword

```
class Polygon {
  constructor(height, width) { //class constructor
    this.name = 'Polygon';
    this.height = height;
    this.width = width;
}
sayName() { //class method
    console.log('Hi, I am a', this.name + '.');
}
```



```
class Square extends Polygon {
constructor(length=10) { // ES6 features Default Parameters
  super(length, length); //call the parent method with super
  this.name = 'Square';
get area() { //calculated attribute getter
  return this.height * this.width;
let s = new Square(5);
s.sayName(); // => Hi, I am a Square.
console.log(s.area); // => 25
console.log(new Square().area); // => 100
```



Modules

```
//Default exports

/*--- Mammal.js ---*/
export default class Mammal {...}

/*--- Human.js ---*/
Import Mammal from './Mammal';
let mammal = new Mammal();
```



Multiple exports and imports

```
/*--- operations.js ---*/
export function sum(a,b) { return a+b }
export function sub(a,b) { return a-b }
export function mult(a,b) { return a*b }

/*--- Main.js ---*/
Import { sum, sub, mult } from './operations.js'; //or
```

Import * as operations from './operations';



Мар

```
let map = new Map()
map.set('name', 'arun');
map.get('name')
arun
map.has('name')
true
map.delete('name')
true
map.has('name')
false
```



Мар

// Getting Size of map
console.log(map.size)

// Deleting all entries in a map
map.clear()



Мар



Iterating on maps

```
for (let key of map.keys()) {
      console.log(key);
}

for (let value of map.values()) {
      console.log(value);
}

for (let entry of map.entries()) {
      console.log(entry[0], entry[1]);
}
```



Iterating on maps

```
for (let entry of map.entries()) {
     console.log(entry[0], entry[1]);
}

map.forEach((value, key) => {
     console.log(key, value);
});
```



```
let set = new Set();
set.add('red')
set.has('red')
true
set.delete('red')
true
set.has('red')
false
```



```
//Getting size and clearing the data from set

let set = new Set();
set.add('red')
set.add('green')

set.size
2

set.clear();
set.size
0
```



Different ways of defining a set

let set = new Set(['red', 'green', 'blue']);

let set = new Set().add('red').add('green').add('blue');



```
// Iterating
for (let x of set) {
      console.log(x);
   }

// or convert it into an array and iterate over it
let arr = [...set];
```



Setting up babel

- npm install -g babel-cli
- 2) npm install -g babel-preset-es2015
- 3) echo '{ "presets": ["es2015"] }' > .babelrc
- 4) babel <file name>
- 5) babel <file> --out-file <output file>
- 6) babel <file> --watch --out-file <output file>