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```

```
1
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```
1 <script type="text/javascript">
 2 //built in objects
 3 var d = new Date();
 4 var arr = new Array();
 5 //constructor function
 6 function Programmer(fName, lName, lang, salary){
 7
        this.firstName = fName;
 8
        this.lastName = lName;
 9
       this.language = lang;
10
        this.salary = salary;
        this.getFullName = function(){
11
            return this.firstName + " " + this.lastName;
12
13
        }
14 }
15 //define objects by constructor function
16 var programmer1 = new Programmer("Sari", "Cohen", "angular", 10000);
17 var programmer2 = new Programmer("Brachi", "Levi", "react", 12000);
18 console.log(programmer1.language);
19 console.log(programmer2.salary);
20 console.log(programmer1.getFullName());
21 console.log(programmer2.getFullName());
22 //define array of objects by constructor function
23 var progArray = [programmer1, programmer2, new Programmer("Zipi", "Klein",
      "C#", 7000)];
24
25 console.log(programmer1.hasOwnProperty("firstName")); //true
26 console.log(programmer2.hasOwnProperty("address")); //false
27
28 //object reflection
   for(var key in programmer1){
29
        if(typeof programmer1[key] !== 'function'){// check if the property is not ₹
30
           console.log(key + "-" + programmer1[key]); //print the key and value →
31
              of the proprty
32
        }
33 }
34
35 //define object literal notation
36 var webSite = {
        clientSide: "JavaScript",
37
        serverSide: "Java",
38
39
        dataBase: "SQL",
40
        getLangs: function(){
           return this.clientSide + " " + this.serverSide;
11
42
43
44
   console.log(webSite.getLangs());
45
46 //public, private and privileged function
   function Programmer2(fName, 1Name){
        var firstName = fName; //private field
48
        this.lastName = lName; //public field
49
        var privateGetFirstName = function(){ //private field
50
             return firstName;
51
52
        function privateFunction(){ //another way to define private field
53
```

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```

```
2
```

```
return true;
 55
 56
         this.privilegedGetFirstName = function(){ //privileged function
             return getFirstName();
 57
 58
         }
 59 }
 60 var p1 = new Programmer2("Yossi", "Man");
     console.log(p1.firstName); //undefined
     // console.log(privateFunction()); //error - privateFunction is not defined
 62
 63
     function Programmer3(lang, salary){
 64
 65
        var _lang = lang;
 66
        var _salary = salary;
        Object.defineProperty(this, "lang", { //read only field
 67
 68
            get: function(){
 69
              return _lang;
 70
            },
 71
        });
        Object.defineProperty(this, "salary", {
 72
 73
            get: function(){
 74
               return _salary;
 75
            },
 76
            set: function(value){
 77
               if(value < 0){
 78
                   alert("incorrect salary");
 79
               }
 80
               else{
 81
                   _salary = value;
 82
 83
            }
 84
        });
 85 }
 86 var p3 = new Programmer3("node.js", 8000);
 87 p3.lang = "android";
 88 console.log(p3.lang); // node.js
 89 //the lang wasn't changed because this field doesn't have set function.
 90 p3.salary = -50; //an error alert will appear
 91
 92 function Circle(radius){
 93
        this.radius = radius;
 94
        Circle.PI = 3.14; //static property
 95
        this.calculateArea = function(){
            return Circle.PI * this.radius * this.radius;
 96
 97
 98 }
 99 var circle1 = new Circle(5);
100 console.log(circle1.calculateArea()); //5 * 5 * 3.14
101
102 var s = new String("string1");
103 console.log(s.toUpperCase());
104 String.prototype.toUpperCase = function(){//override the function toUpperCase
105
         return "aaaa";
106
107 console.log(s.toUpperCase()); //aaaa
108
109 function Worker(salary){
```

```
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       this.salary = salary;
111 }
112 Worker.prototype.getDetails = function(){
113
        return this.salary;
114 }
115 function Programmer4(salary, lang){
       Worker.call(this, salary);
116
117
       this.lang = lang;
118 }
119 Programmer4.prototype = Object.create(Worker.prototype);
120 Programmer4.prototype.getDetails = function(){
         return Worker.prototype.getDetails.call(this) + " " + this.lang;
121
122 }
123 var w = \text{new Worker}(5000);
124 var p = new Programmer4(10000, "swift");
125 console.log(w.getDetails());
126 console.log(p.getDetails());
```

127

128 </script>