

Factory function

Ex:1

```
13 //factory function
14
15 function createRectangle() {
16
17     let rectangle = {
18         length: 1,
19         breadth: 2,
20
21         draw: function() {
22             console.log('drawing rectangle');
23         }
24     };
25     return rectangle;
26 }
```

Ex:2

```
13 //factory function
14
15 function createRectangle() {
16
17     return rectangle = {
18         length: 1,
19         breadth: 2,
20
21         draw: function() {
22             console.log('drawing rectangle');
23         }
24     };
25
26 }
```

Ex.3

```
11 // },
12
13 //factory function
14
15 function createRectangle(len, bre) {
16
17     return rectangle = {
18         length: len,
19         breadth:bre ,
20
21         draw() {
22             console.log('drawing rectangle');
23         }
24     };
25 }
26
27 let rectangleObj1 = createRectangle(5, 4);
28
```



```
33 //constructor function -> Pascal Notation -> first letter of every word is Capital -> NumberOfStudents
34 //constructor function -> prop/methods -> initialise/Define
35 function Rectangle(len, bre) {
36     this.length = len;
37     this.breadth = bre;
38     this.draw= function() {
39         console.log('drawing');
40     }
41 }
42
43 //object creation using constrcutor function
44 let rectangleObject = new Rectangle(4,6);
45
46 rectangleObject.color = 'yellow';
47 console.log(rectangleObject);
48
49 delete rectangleObject.color;
50 console.log(rectangleObject);
```

object mein add krskrti
object mein delete krskrti

Object cloning

1)

```
155
156 //object - colone #1
157 let src = {
158     a:10,
159     b:20,
160     c:30
161 };
162
163 let dest = {};
164
165 for(let key in src) {
166     dest[key] = src[key];
167 }
168
169 console.log(dest);
170
171 src.a++;
172 console.log(dest);
```

2)

```
174 //Object #2
175 let src = {
176     a:10,
177     b:20,
178     c:30
179 };
180
181 let dest = Object.assign({}, src);
182
183 console.log(dest);
184
185 src.a++;
186
187 console.log(dest);
```

3)

```
174 //Object #2
175 let src = {
176     a:10,
177     b:20,
178     c:30
179 };
180
181 let src2 = { value: 25};
182
183 let dest = Object.assign({}, src, src2);
184
185 console.log(dest);
186
187 src.a++;
188
189 console.log(dest);
```

*multiple source
to copy*

4)

```
191 //Object Cloning #3
192 let src = {
193     a: 10,
194     b:20,
195     c:30
196 };
197
198 let dest = {...src};
199
200 console.log(dest);
201
202 src.a++;
203
204 console.log(dest);
205
```