Javascript Assignment

```
    var add=(function(){
        var counter=0;
        return function() {return counter+=1;}
        })()
        add();
        add();
        add();
```

The output for this function is 3 because this is a self-invoking function and runs only once .The counter is changed only when the add function is called.

2. A.) Every():

```
> let result = [10, 5, 20, 100].every(function(number){
        return number < 150
    });
< undefined
> result
< true</pre>
```

B.) Concat():

```
> arr1=[1,3,5,7,9];
< ▶ (5) [1, 3, 5, 7, 9]
> a=[2,4,6,7,9];
< ▶ (5) [2, 4, 6, 7, 9]
> arr1.concat(a);
< ▶ (10) [1, 3, 5, 7, 9, 2, 4, 6, 7, 9]</pre>
```

C.) Filter():

```
let ans=[10,5,20,100].filter(function(ayy){
  return ayy<50
});
undefined
ans;
▶ (3) [10, 5, 20]</pre>
```

D.) IndexOf():

```
> let str="This is Snigdha";
    str.indexOf("me");
< -1
> let str="This is Snigdha";
    str.indexOf("is");
< 2</pre>
```

E.) Join():

```
> let arr=["How","are","you","?"]
arr.join(" ");
< "How are you ?"</pre>
```

F.) LastIndexOf():

```
> let str="This is Snigdha";
   str.lastIndexOf("is");
<: 5</pre>
```

G.) Map():

H.) Pop():

```
> let arr1=[1,2,3,4,5,6]
arr1.pop();
< 6
```

i.)Push():

J.) Reverse():

```
> s;

⟨· ▶ (7) ["A", "B", "C", "D", "E", "F", "G"]

> s.reverse();

⟨· ▶ (7) ["G", "F", "E", "D", "C", "B", "A"]
```

K.) Shift():

```
> s;

⟨ ▶ (6) ["F", "E", "D", "C", "B", "A"]

> s.shift();

⟨ "F"

> s;

⟨ ▶ (5) ["E", "D", "C", "B", "A"]
```

L.) Slice():

```
> let b=[1,2,3,4,5,6,7,8,9]
b.slice(1);
< ▶ (8) [2, 3, 4, 5, 6, 7, 8, 9]</pre>
```

M.) Some():

```
> let b=[1,2,3,4,5,6,7,8,9]
  r=b.some(function(num){
    return num<5
    });
    true
> r;
    true
```

N.) Sort():

```
> let c=[4,3,6,5,8,1,9,2];

< undefined

> c.sort();

< > (8) [1, 2, 3, 4, 5, 6, 8, 9]
```

O.) Splice():

```
> c;

< > (8) [1, 2, 3, 4, 5, 6, 8, 9]

> c.splice(2,4);

< > (4) [3, 4, 5, 6]
```

P.) ToString():

```
> c;

< * (4) [1, 2, 8, 9]

> c.toString();

< "1,2,8,9"
```

Q.) Unshift():

3.

```
> function solve(str){
 var re=new RegExp(/^lion/);
  var re1=new RegExp(/cat$/);
  var re3=new RegExp(/ab+c/);
  if(re.test(str)){
  return true+"\n"+str.search("lion"); }
  else if(re1.test(str)){
  return true+"\n"+str.search("cat"); }
  else if(re2.test(str)){
  return true+"\n"+str.search("ab/+c");}
  else {
  return false ;}
  };
undefined
> solve("Rahul is having a cat");

√ "true

  18"
```

4.

```
> function sol(arr){
  var b=[];
  var c=[]
  var a=arr.sort();
  for(i=0;i<a.length;i++){
  c[i]=a[i]*10;
  if(a[i]\%3==0){
  b.push(a[i]);}
  };
    return a+"\n"+b +"\n"+c
  };
undefined
> sol([2,5,1,4,9,6,8,7,3]);
"1,2,3,4,5,6,7,8,9
  3,6,9
  10,20,30,40,50,60,70,80,90"
```

5. ==: This checks whether two operands are same or not. It does not checks their data types but just the value.

```
Eg. 1=="1" // False
```

=== : This checks whether the two operands as well as their data types is equal or not.