Array Methods

```
var arr1=[1,2,3,4,5,6]
var arr2=[7,8]
```

Concat()
```
var arr3 = arr1.concat(arr2)  //concat()
console.log(arr3)
//[1, 2, 3, 4, 5, 6, 7, 8]
```

every()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
arr3.every( (x) =>{ console.log(x>5) } )
//false
```

filter()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
var arr4 =arr3.filter(x => !(x%2));
console.log(arr4);
//[2, 4, 6, 8]
```

forEach()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
var arr4=[];
arr3.forEach((x,i)=> arr4[i]=(x+10));
console.log(arr4);
//[11, 12, 13, 14, 15, 16, 17, 18]
```

indexOf()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
var index=arr3.indexOf(4);
console.log(index);
//3
```

join()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
var arr4_string=arr3.join();
console.log(arr4_string);
//"1,2,3,4,5,6,7,8"
```

lastIndexOf()
```
var arr_l=[1,2,2,3]
var index=arr_l.lastIndexOf(2);
```

```
console.log(index);
//2
```

map()
```
 var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
var arr4=arr3.map(x=>x+10)
 console.log(arr4)
 //[11, 12, 13, 14, 15, 16, 17, 18]
```

pop()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 var popped=arr3.pop()
 console.log(popped)
 //8
```

 push()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 arr3.push(9);
 console.log(arr3);
 //[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

 reduce()
```
 var arr_r=[10,1,2]
 var val=arr_r.reduce((total,num)=>total-num)
 console.log(val)
 //7
```

 reduceRight()
```
 var arr_rr=[1,2,10]
 var val=arr_rr.reduceRight((total,num)=>total-num)
 console.log(val)
 //7
```

 Reverse()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 var arr3=arr3.reverse()
 console.log(arr3)
 //[8, 7, 6, 5, 4, 3, 2, 1]
```

shift()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 var elem=arr3.shift()
 console.log(elem,arr3)
 //1, [2, 3, 4, 5, 6, 7, 8]
```

slice()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 var arr4=arr3.slice(2,5);
 console.log(arr4)
 //[3, 4, 5]
```

some()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 console.log(arr3.some(x=>x>5))
 //true
```

sort()
```
 var arr_sort=[4,3,6,1,2,5]
 console.log(arr_sort.sort())
 //[1, 2, 3, 4, 5, 6]
```

splice()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 arr4=arr3.splice(1,2)
 console.log(arr4)
 //[2, 3]
```

toString
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
 console.log(arr3.toString())
 //"1,2,3,4,5,6,7,8"
```

unshift()
```
var arr3=[1, 2, 3, 4, 5, 6, 7, 8]
var len= arr3.unshift(10)
console.log(len,arr3)
//9, [10, 1, 2, 3, 4, 5, 6, 7, 8]
```

---

52. Result will be 3 after invoking add() thrice.

Q3.

```
var person = prompt("Please enter your name");
var ans=""
var patt=/ab+c/g

if(person.startsWith("lion")){
ans="Starts with lion";
}
else if(person.endsWith("cat")){
ans="Ends with cat";
}
else{
if(patt.test(person)==true){
var ind=(person.search(/ab+c/g));
  ans= "regex present at position "+ind
}
  else{
  ans="does not contain the regex"
  }
}
```

Q4.

```
var arr=prompt("Please enter your Array");
arr=arr.split(",");

console.log(arr)
var arr2=arr.map(x=> parseInt(x))
console.log(arr2)

arr2.sort();
console.log(arr2);
arr2=arr2.map(x=>x*10);
console.log(arr2);
arr3 =arr2.filter(x=>x%3==0);
console.log(arr3);
```

Q5.

The difference between == and === is that: == converts the variable values to the same type before performing comparison.. === returns true only if both values and types are identical for the two variables being compared.