

1. Write a JavaScript function to check whether an `input` is an array or not

Test Data :

```
console.log(is_array('w3resource'));  
console.log(is_array([1, 2, 4, 0]));  
false  
True
```

Solution:

```
var is_array=function(input)  
{  
if(typeof Input==="object Array")  
return true;  
return false;  
};  
console.log(is_array('w3resource'));  
console.log(is_array([1,2,4,0]));
```

2. Write a JavaScript function to clone an array

Test Data :

```
console.log(array_Clone([1, 2, 4, 0]));  
console.log(array_Clone([1, 2, [4, 0]]));  
[1, 2, 4, 0]  
[1, 2, [4, 0]]
```

Solution:

```
var array_Clone=function(arr)  
{  
return arr.slice(0);  
};  
console.log(array_Clone([1,2,4,0]));  
console.log(array_Clone([1,2,[4,0]]));
```

3. Write a JavaScript function to get the first element of an array. Passing a parameter 'n' will return the first 'n' elements of the array.

Test Data :

```
console.log(first([7, 9, 0, -2]));  
console.log(first([],3));  
console.log(first([7, 9, 0, -2],3));  
console.log(first([7, 9, 0, -2],6));  
console.log(first([7, 9, 0, -2],-3));
```

Expected Output :

```
7
[]
[7, 9, 0]
[7, 9, 0, -2]
[]
```

Solution:

```
var first = function(array, n) {
    if (array == null)
        return void 0;
    if (n == null)
        return array[0];
    if (n < 0)
        return [];
    return array.slice(0, n);
};
console.log(first([7, 9, 0, -2]));
console.log(first([],3));
console.log(first([7, 9, 0, -2],3));
console.log(first([7, 9, 0, -2],6));
console.log(first([7, 9, 0, -2],-3));
```

4. Write a simple JavaScript program to join all elements of the following array into a string.

Sample array : myColor = ["Red", "Green", "White", "Black"];

Expected Output :

"Red,Green,White,Black"

"Red,Green,White,Black"

"Red+Green+White+Black"

Solution:myColor = ["Red", "Green", "White", "Black"];

```
console.log(myColor.toString());
```

```
console.log(myColor.join());
```

```
console.log(myColor.join('+'));
```

5. Write a JavaScript program to find the most frequent item of an array

Sample array : var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];

Sample Output : a (5 times)

Solution:

```
var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];
var count =0;
var x=0;
var el;
for(var i=0;i<arr1.length;i++)
{
    for(var j=i;j<arr1.length;j++)
    {
        if(arr1[i]==arr1[j])
        count++;
        if(x<count)
        {
            x=count;
            el=arr1[i];
        }
    }
    count=0;
}
console.log(el+"(" + x + "times)");
```