

THA-6

Ques.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
```

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

Ques.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]]
```

```
var array_Clone = function(arr1) {  
  
    return arr1.slice(0);  
  
};  
  
console.log(array_Clone([1, 2, 4, 0]));  
  
console.log(array_Clone([1, 2, [4, 0]]));
```

Ques.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]
[]
```

```
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));
```

Ques.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"
```

```
myColor = ["Red", "Green", "White", "Black"];
```

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

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

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

Question. 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)

```
var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];
```

```
var mf = 1;
```

```
var m = 0;
```

```
var item;
```

```
for (var i=0; i<arr1.length; i++)
```

```
{
```

```
    for (var j=i; j<arr1.length; j++)
```

```
    {
```

```
        if (arr1[i] == arr1[j])
```

```
            m++;
```

```
        if (mf<m)
```

```
        {
```

```
            mf=m;
```

```
            item = arr1[i];
```

```
        }
```

```
    }
```

```
    m=0;
```

```
}
```

```
console.log(item+" ( " +mf +" times ) ");
```