THA Day 6

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

```
Example:
```

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

CODE:

```
function isArray(input)

{
    if(toString.call(input)==="[object Array]"){
        return true;
    }
    return false;
}

console.log(isArray([1,2,3]))
console.log(isArray("hi"))
```

Function checkArray()

[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]

CODE:

```
WAY 1:
```

```
function array_Clone(numbers){
    newvalue=numbers.slice(0);
    return newvalue
}

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

```
function array_Clone(numbers){
    newvalue=[
    for (i = 0; i < numbers.length; i++) {
        newvalue[i] = numbers[i];
        }
        return newvalue
}

console.log(array_Clone([1, 2, 4, 0]));
console.log(array_Clone([1, 2, [4, 0]]));</pre>
```

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]
[]
```

CODE:

```
function first(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([7, 9, 0, -2],3));
console.log(first([7, 9, 0, -2],6));
console.log(first([7, 9, 0, -2],6));
console.log(first([7, 9, 0, -2],-3));</pre>
```

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"
```

Code:

```
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)

CODE: