Javascript Level 1 Exercises Set 2

#1. Find keys without built in function

Write a function called keys, which accepts an object and returns an array of all of the key s in the object. Do not use the built in Object.keys() function!

`Examples:`

```
const obj = { d: 1, c: 2, t: 3 }
INPUT: keys(obj)
OUTPUT: ['d', 'c', 't']


const obj2 = { first: 'Matt', last: 'Lane' }
INPUT: keys(obj)
OUTPUT: ['first', 'last']


const obj3 = {}
INPUT: keys(obj)
OUTPUT: []
```

#2. Maximum number in array

Write a JavaScript function to find the highest value in an array.
`Note – Without using Math.max()`

`Examples:`

```
INPUT: max([12,34,56,1])
OUTPUT: 56

INPUT: max([-12,-34,0,-56,-1])
OUTPUT: 0
```

#3. Count the digits

Write a JavaScript function to find the highest value in an array.

Examples:

```
INPUT: max([12,34,56,1])
OUTPUT: 56

INPUT: max([-12,-34,0,-56,-1])
OUTPUT: 0
```

#4. Is it a palindrome?

Have the function palindrome(str) accept a string argument, and return the boolean true if t he argument is a palindrome(meaning that the string is the same forward as it is backward) .Otherwise, return the boolean false.
`NOTE – without using.reverse() method`

Examples:

```
INPUT: palindrome("madam");
OUTPUT: true

INPUT: palindrome("javascript");
OUTPUT: false
```

#5. String end with suffix

Write a JavaScript function check if a string ends with the specified suffix.

Examples:

```
INPUT: string_endsWith('JS PHP PYTHON', 'PYTHON' )
OUTPUT: true

INPUT: string_endsWith('JS PHP PYTHON', ')' )
OUTPUT: false
```

#6. Alternate Capitalization

Given a string, capitalize the letters that occupy even indexes and odd indexes separately, and return as shown below. Index 0 will be considered even.
The input will be a lowercase string with no spaces.

Examples:

```
INPUT: capitalize("abcdef")
OUTPUT: ['AbCdEf', 'aBcDeF']

INPUT: capitalize('dct')
OUTPUT: ['DcT','dCt']
```

#7. Super Hero Powers

Write a function to display the powers of the given super hero

Examples:

```
const superHeroes = [
    {
        "name": "Molecule Man",
        "age": 29,
        "secretIdentity": "Dan Jukes",
        "powers": [
            "Radiation resistance",
            "Turning tiny",
            "Radiation blast"
        ]
    },
    {
        "name": "Madame Uppercut",
        "age": 39,
        "secretIdentity": "Jane Wilson",
        "powers": [
            "Million tonne punch",
            "Damage resistance",
            "Superhuman reflexes"
        ]
    }
]

INPUT: superPower(superHeroes, 'Molecule Man')
OUTPUT: 'Radiation resistance, Turning tiny, Radiation blast'
```

#8. Weight of strings

You are given two strings S1 and S2. You need to find weights of both strings and compar e them. The weight of a string can be obtainedby adding individual weights of the characte rs that make the string. The weight of individual characters are the position on which they occur in the English alphabets table; for eg, a has weight 1, z has weight 26.

Output:
return 1 if the weight of the first string is greater, return 2 if the weight of the second string is greater, return equal if the weights are equal.

Example:

```
INPUT: strWeight('batman', 'superman')
OUTPUT: 2

INPUT: strWeight('batman', 'manbat')
OUTPUT: 'equal'
```