

4.1. DO THE BELOW PROGRAMS IN ANONYMOUS FUNCTION

4.1.1. PRINT ODD NUMBERS IN AN ARRAY

```
let OddNum = function(numbe) {  
  let num =[];  
  for (let index in numbe ) {  
    if( numbe[index] % 2 === 1) {  
      num.push(numbe[index]);  
    }  
  }  
  console.log(num)  
}  
numbers = [8, 3, 7, 9, 4, 28, 99, 73, 805, 88, 62, 55]  
OddNum(numbers)
```

```
[Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"  
[  
  3,   7,   9, 99,  
 73, 805, 55  
]  
[Done] exited with code=0 in 0.146 seconds
```

4.1.2 CONVERT ALL THE STRINGS TO TITLE CAPS IN A STRING ARRAY

```
let TitleCaps = function(str){  
  for (let index in str){  
    if (!str){  
      console.log('no input');  
    }  
    str[index] = str[index].toLowerCase().split(' ');  
    str1 = str[index]  
    for (let i in str1) {  
      str1[i] = str1[i].charAt(0).toUpperCase() + str1[i].slice(1);  
      // console.log(str1);  
    }  
    console.log(str1.join(' '));  
  }  
}  
arr = ['devil', 'ikigai', 'swordsman', 'silent warrior devil']  
TitleCaps(arr)
```

```
Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"  
Devil  
Ikigai  
Swordsman  
Silent Warrior Devil
```

4.1.3 SUM OF ALL NUMBERS IN AN ARRAY

```
let sum = function(val) {  
  total = 0;  
  for (let index in val){  
    total = total + val[index];  
  }  
  console.log(total);  
}  
arr = [2, 4 , 55, 23, 55];  
sum(arr)
```

```
[Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"  
139
```

4.1.4 RETURN ALL THE PRIME NUMBERS IN ARRAY

```
let a = [5, 9, 63, 29, 35, 6, 55, 23]  
let prime = [];  
  
let isPrime = function (item) {  
  let identifier = item / 2;  
  for (let j = 2; j <= identifier; j++) {  
    if ((item % j) == 0) {  
      return false;  
    }  
  }  
  return true;  
}  
  
for (let index = 0; index < a.length; index++) {  
  if (isPrime(a[index])) {  
    prime.push(a[index])  
  }  
}  
  
console.log(prime);
```

```
Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"  
[ 5, 29, 23 ]
```

4.1.5 RETURN ALL THE PALINDROMES IN AN ARRAY

```
let isPalindrome = function(e1) {
  const str = String(e1);
  let i = 0;
  let j = str.length - 1;
  while(i < j) {
    if(str[i] === str[j]) {
      i++;
      j--;
    }
    else {
      return false;
    }
  }
  return true;
};
let findPalindrome = function(arr) {
  return arr.filter(e1 => isPalindrome(e1));
};
let arr = ['carecar', 1344, 12321, 'did', 'cannot'];
console.log(findPalindrome(arr));
```

```
[Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"
[ 12321, 'did' ]
```

4.1.6 RETURN MEDIAN OF TWO SORTED ARRAY OF SAME SIZE

```
let SortedArray = function (num1, num2) {
  let compare = function(i, j){
    return i - j;
  }
  let arr = num1.concat(num2).sort(compare);
  if (arr.length % 2 == 0){
    return arr1 = (arr[arr.length/2 - 1] + arr[arr.length/2])/2
  }
}
val1 = [2, 4, 6];
val2 = [8, 9, 7];
SortedArray(val1, val2)
console.log(arr1)
```

```
[Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"
6.5
```

4.1.7 REMOVE DUPLICATES FROM AN ARRAY

```
let arr = [1, "mango", "apple",  
           "orange", "mango", "mango", 1];  
  
let removeDuplicates = function (arr) {  
  return arr.filter((item,  
    index) => arr.indexOf(item) === index);  
}  
  
console.log(removeDuplicates(arr));
```

```
[Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"  
[ 1, 'mango', 'apple', 'orange' ]
```

4.1.8 ROTATE AN ARRAY BY K-TIMES

```
let RightRotate = function (a, n, k)  
{  
  let var1 = [];  
  for (let i = 0; i < n; i++) {  
    if (i < k) {  
      var1.push(a[n + i - k] + " ")  
    }  
    else {  
      var1.push(((a[i - k]) + " "));  
    }  
  }  
  console.log(var1.slice().join(' '));  
}  
  
let Array = [1, 2, 3, 4, 5];  
let N = Array.length;  
let K = 3;  
  
RightRotate(Array, N, K);
```

```
[Running] node "c:\Users\vicky\OneDrive\Desktop\zen\EXAMPLE.JS"  
3 4 5 1 2
```