1.1 Print all numbers in array using Anonymous function;

```
1    var arr = [5,2,7,6,7,6];
2
3    var x = function(ar){
4        for(i in ar){
5            if(ar[i]%2==1){
6                console.log(ar[i]);
7            }
8        }
9    }
10
11   x(ar);
```

1.2 Print all numbers in array using IIFE function;

```
1    var arr = [5,2,7,6,7,6];
2
3    (function(ar){
4        for(i in ar){
5            if(ar[i]%2==1){
6                console.log(ar[i]);
7            }
8        }
9    })(arr);
```

2.1 Convert all the strings to title caps in a String Array using IIFE

```
1   var ar = ["volvo", "BMW", "ford", "mazda"];
2
3   (function(){
4       for(i in ar){
5           var word = ar[i].split('');
6           word[0] = word[0].toUpperCase();
7           for(j=1;j<word.length;j++)
8               word[j] = word[j].toLowerCase();
9           ar[i] = word.join("");
10      }
11      console.log(ar)
12  })();
13
```

2.2 Convert all the strings to title caps in a String Array using anonymous function

```
1   var ar = ["volvo", "BMW", "ford", "mazda"];
2
3   r = function(){
4       for(i in ar){
5           var word = ar[i].split('');
6           word[0] = word[0].toUpperCase();
7           for(j=1;j<word.length;j++)
8               word[j] = word[j].toLowerCase();
9           ar[i] = word.join("");
10      }
11      return ar;
12  };
13  r();
14  console.log(ar);
15
```

3.1 Print sum of all number in array using anonymous function

```
1    let arr = [2,56,879,87];
2
3    var sumFun = function(arr){
4        let total=0;
5        for(i in arr){
6            total += arr[i];
7        }
8        return total;
9    }
10
11   var sum = sumFun(arr);
12   console.log(sum);
```

3.2 Print sum of all number in array using IIFE function

```
1    let arr = [2,56,879,87];
2
3    var sum = (function(arr){
4        let total=0;
5        for(i in arr){
6            total += arr[i];
7        }
8        return total;
9    })(arr);
10   console.log(sum);
```

4.1 Return all the prime numbers in array using anonymous function

```javascript
let arr = [2, 3, 4, 5, 6, 7, 8, 9, 10];

var prime = (function(arr){
    let total=[];
    for(i=0;i<arr.length;i++){
        var bool = true

        for(j=2;j<=Math.sqrt(arr[i]);j++){
            if(arr[i]==1){
                bool = false;
                break;
            }
            else{
                if(arr[i]%j==0){
                    bool = false;
                    break;
                }
            }
        }
        if(bool == true){
            total.push(arr[i]);
        }
    }
    return total;
})(arr);
console.log(prime);
```

4.2 Return all the prime numbers in array using IIFE function

```javascript
let arr = [2, 3, 4, 5, 6, 7, 8, 9, 10];

var prime = function(arr){
    let total=[];
    for(i=0;i<arr.length;i++){
        var bool = true

        for(j=2;j<=Math.sqrt(arr[i]);j++){
            if(arr[i]==1){
                bool = false;
                break;
            }
            else{
                if(arr[i]%j==0){
                    bool = false;
                    break;
                }
            }
        }
        if(bool == true){
            total.push(arr[i]);
        }
    }
    return total;
}
var primearr = prime(arr);
console.log(primearr);
```

5.1 Return all the palindromes in array using anonymous function

```
1    let arr = ['anna','civic','kayak','level','madam'];
2
3    var palFun = function(arr){
4        let strarr=[];
5        for(i=0;i<arr.length;i++){
6            var rev = arr[i].split('').reverse().join('');
7            if(arr[i]==rev){
8                strarr.push(arr[i])
9            }
10       }
11       return strarr;
12   }
13   var pal = palFun(arr);
14   console.log(pal);
```

5.2 Return all the palindromes in array using IIFEfunction

```
1    let arr = ['anna','civic','kayak','level','madam'];
2
3    var pal = (function(arr){
4        let strarr=[];
5        for(i=0;i<arr.length;i++){
6            var rev = arr[i].split('').reverse().join('');
7            if(arr[i]==rev){
8                strarr.push(arr[i])
9            }
10       }
11       return strarr;
12   })(arr);
13   console.log(pal);
```

6.1 Return median of two sorted array of same size using anonymous function

```
1    var arr1 = [11,15];
2    var arr2 = [17,20];
3
4    var arr = arr1.concat(arr2);
5    arr.sort(function(a,b){return a-b;})
6    var medianFun = function(arr){
7        var len = +arr.length/2;
8        var median = +(arr[len]+arr[len-1])/2;
9        return median;
10   }
11
12   median = medianFun(arr);
13
14   console.log(median);|
```

6.2 Return median of two sorted array of same size using IIFE function

```
1    var arr1 = [11,15];
2    var arr2 = [17,20];
3
4    var arr = arr1.concat(arr2);
5    arr.sort(function(a,b){return a-b;})
6    var median = (function(arr){
7        var len = +arr.length/2;
8        var median = +(arr[len]+arr[len-1])/2;
9        return median;
10   })(arr);
11
12   console.log(median);
```

7.1 Remove duplicates from an array using anonymous function

```
1    var arr = [10,10,10,20,20,20,30,30,30];
2
3    var removeDuplicate = function(arr){
4        for(i=0;i<arr.length;i++){
5            for(j=0;j<arr.length;j++){
6                if(arr[i]==arr[j]){
7                    arr.splice(j,1);
8                }
9            }
10
11        }
12       return arr;
13   }
14
15   arr = removeDuplicate(arr);
16   console.log(arr);
```

7.1 Remove duplicates from an array using anonymous function

```
1    var arr = [10,10,10,20,20,20,30,30,30];
2    💡
3    var arr = (function(arr){
4        for(i=0;i<arr.length;i++){
5            for(j=0;j<arr.length;j++){
6                if(arr[i]==arr[j]){
7                    arr.splice(j,1);
8                }
9            }
10
11        }
12       return arr;
13   })(arr);
14   console.log(arr);
```

8.1 Rotate an array by K times and return the rotated array using anonymous function

```
1    var arr = [1,2,3,4,5,6,7];
2    var k = 2;
3    var rotate = function(arr,k){
4        for(i=0;i<k;i++){
5            temp = arr[0];
6            for(j=0;j<arr.length;j++){
7                arr[j] = arr[j+1];
8            }
9            arr[arr.length-1] = temp;
10       }
11       return arr;
12   }
13
14   arr = roatate(arr,k);
15   console.log(arr);
```

8.1 Rotate an array by K times and return the rotated array using IIFE function

```
1    var arr = [1,2,3,4,5,6,7];
2    var k = 2;
3    var arr = (function(arr,k){
4        for(i=0;i<k;i++){
5            temp = arr[0];
6            for(j=0;j<arr.length;j++){
7                arr[j] = arr[j+1];
8            }
9            arr[arr.length-1] = temp;
10       }
11       return arr;
12   })(arr,k);
13   console.log(arr);
```