

## TASK-3

### 1.Print odd numbers in an array?

```
//Anonymous function
var arr=[2,3,4,7,9,11];
var odd = function(a){
    let s = [];
    for(let i in arr)
    {
        if(arr[i]%2!==0)
        {
            s.push(arr[i]);
        }
    }
    return s;
};
console.log(odd(arr));
```

### 2.Convert all the strings to title caps in a string array?

```
var titleCap = function(string){
    var s=string.toLowerCase().split(" ");
    for(var i in s)
    {
        s[i]=s[i][0].toUpperCase()+s[i].slice(1);
    }
    console.log(s);
    return s;
};
titleCap("the movie is awesome");
```

### 3.Sum of all numbers in an array?

```
//Anonymous function
var arr=[4,5,7,9];
var sum = function(a){
    let s = 0;
    for(let i in arr)
    {
        s=s+arr[i];
    }
    return s;
};
```

```
console.log(sum(arr));
```

#### **4.Return all the prime numbers in an array?**

```
//Anonymous function
var arr=[1,2,3,4,5,6,7];
var prime = function(arr){
  let s = [],c=0;
  for(i=0;i<arr.length;i++)
  {
    for(j=1;j<=arr[i];j++)
    {
      if(arr[i]%j==0)
        c++;
    }
    if(c==2)
      s.push(arr[i])
      c=0;
  }
  return s;
};
console.log(prime(arr));
```

#### **5)Return all the palindromes in an array?**

```
var palindrome = function(array){
  var str="";
  var rev="";
  for(var i in array){
    rev=array[i].split("").reverse().join("");
    if(rev==array[i]){
      str=str+" "+array[i];
    }
  }
  console.log(str);
}
palindrome(["the","nun"]);
```

#### **6)Return the median of two sorted arrays of the same size?**

```
var a = [1,2,3,2,4],b=[2,1,4,7,6],c=0;
for(var i in b)
{
  a.push(b[c++]);
}
```

```

    a.sort(function(a,b){
        return a-b;
    })
}
//anonymous function
var med=function(array){
    n=Math.floor(array.length/2);
    avg=(array[n]+array[n-1])/2;
    return avg;
};
console.log(med(a));
//iife function
(function(array){
    n=Math.floor(array.length/2);
    avg=(array[n]+array[n-1])/2;
    console.log(avg);
})(a);

```

## 7)Remove duplicates from an array?

```

var arr =[1,3,2,4,3,4];
var duplicate=function(array){
    for(i=0;i<array.length-1;i++){
        for(j=i+1;j<array.length;j++){
            if(array[i]==array[j]){
                array.splice(j,1);
                j--;
            }
        }
    }
    return array;
};
console.log(duplicate(arr));

```

## 8)Rotate an array by k times and return the rotated array?

```

var a = [1,3,5,2,6,8,9],k=10;
for(var i in a)
{
    if(k>a.length)
    {
        k=k-10;
        console.log(a<<2);
    }
}

```

```
    }  
  }  
  //Anonymous function  
  var times = function(array,k){  
    let j=0,result=[];  
    for(var m in array){  
      if(k<array.length)  
      {  
        result[k++]=array[m];  
      }  
      else{  
        result[j++]=array[m];  
      }  
    }  
    return result;  
  };  
  console.log(times(a,k));
```