1) **Print odd numbers in an array**

Using anonymous function

```
var arr=[10,21,45,88,64,55,76,87]

  var oddnum=function(arr)
  {
     var odd=[]
     for(i=0;i<arr.length;i++)
     {

        if(arr[i]%2!==0)
        {
         odd.push(arr[i])
        }

     }
     return odd;
  }
  console.log(oddnum(arr))
```

Using IIFE

```
 var arr=[12,23,34,45,56,67,78,89,80];

(function(){

    var odd=arr.filter(item=>item%2!==0)
   console.log(odd)
})()
```

2) Convert all the strings to title caps in a string array

Using anonymous function

```
 var str="shailesh sadashiv shelar."

var title = str.split(" ").map(x=>x[0].toUpperCase()+x.substr(1).toLowerCase()).join(" ")

console.log(title)
```

Using IIFE

```
  var str="shailesh sadashiv shelar.";
```

```
(function(){
    var title = str.split("
").map(x=>x[0].toUpperCase()+x.substr(1).toLowerCase()).join(" ")
    console.log(title)
})();
```

3) Sum of All numbers of Array

Using anonymous function

```
var arr=[100,23,432,34]

var sum=function(){return( arr.reduce((result,item)=>{return result+item},100)) }
 console.log(sum())
```

Using IIFE

```
var arr=[100,23,432,34];

 (function(){
  var sum=function(){return( arr.reduce((result,item)=>{return result+item},100))
  console.log(sum())
 })()
```

4) Return all the prime numbers in an array

Using anonymous function

```
var pno=function(){
   var pr =arr.filter(num=>{
      for(let i=2;i<num;i++)
      {
         if(num%i===0)
         {
            return false;
         }
      }
      return num!==1
   })
   console.log(pr)
}
pno()
```

Using IIFE

```
(function(){
     var pr =arr.filter(num=>
     {
       for(let i=2;i<num;i++)
       {
          if(num%i===0)
          {
             return false;
          }
       }
       return num!==1
   })
   console.log(pr)
})()
```

5)Return all the palindromes in an array

Using IIFE Function

```
var arr=["sjhr","ssss","sksk"];

  (function(){
     var pr =arr.filter(str=>
     {
       var rev =str.split("").reverse().join("")
       if(rev==str)
       {
          return true
       }
       else
       {
          return false
       }
   })
   console.log(pr)
})()
```

Using anonymous Function

```
var arr=["sjhr","ssss","sksk"];

  var pal=function(){
```

```
    var pr =arr.filter(str=>
    {
      var rev =str.split("").reverse().join("")
      if(rev==str)
      {
         return true
      }
      else
      {
         return false
      }
   })
   return(pr)
}
console.log(pal())
```

6)Return median of two sorted arrays of same size

Using anonymous Function

```
var arr=[1,2,4]
   var arr1=[3,5,6]
  var median=function(){
     var arr3=[...arr,...arr1]
     arr3.sort()
     med=(arr3[arr.length]+arr3[(arr.length)-1])/2;
     return med
  }

  console.log(median())
```

Using IIFE Function

```
   var arr=[1,2,4]
   var arr1=[3,5,6];
 (function(){
     var arr3=[...arr,...arr1]
     arr3.sort()
     med=(arr3[arr.length]+arr3[(arr.length)-1])/2;
```

```
    console.log(med)
})()
```

7)Remove duplicates from an array

```
let arr = [1,46,461,46];

let uniqueele = arr.filter((ch, index) => {
   return arr.indexOf(ch) === index;
});

console.log(uniqueele);
```