

TASK - 3

Q.Print odd numbers in an array

Ans. Anonymous function

```
const arr = [1, 2, 3, 4, 5, 6];
```

```
var result = function (value)
{
  for(i=0; i<value.length; i++)
  {
    if(value[i]%2 !== 0)
    {
      console.log(value[i]);
    }
  }
}
result(arr);
// iife(immediately invoked function expression)
(function (arr){
  for(i=0; i<arr.length; i++)
  {
    if(arr[i]%2 === 0)
    {
      console.log(arr[i]);
    }
  }
})([1,2,3,4]);
```

Q.Convert all the strings to title caps in a string array

Ans. Anonymous function

```
var result = function (string)
{
  var sentence = string.toLowerCase().split(" ");
  for(var i =0; i<sentence.length; i++)
  {
    sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1);
  }
  console.log(sentence);
}
```

```
result("this is nice");
```

```
//iife
```

```
(function (string)
```

```
{
```

```
    var sentence = string.toLowerCase().split(" ");
```

```
    for(var i =0; i<sentence.length; i++)
```

```
    {
```

```
        sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1);
```

```
    }
```

```
        console.log(sentence);
```

```
})(("this is nice");
```

Q.Sum of all numbers in an array

Ans. Anonymous function

```
const arr = [1, 2, 3, 4, 5, 6];
```

```
let sum = 0;
```

```
var result = function (value)
```

```
{
```

```
    for(i=0; i<value.length; i++)
```

```
    {
```

```
        sum += value[i];
```

```
    }
```

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

```
}
```

```
result(arr);
```

```
//iife
```

```
let sum = 0;
```

```
(function (value)
```

```
{
```

```
    for(i=0; i<value.length; i++)
```

```
    {
```

```
        sum += value[i];
```

```
    }
```

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

```
})( [1, 2, 3, 4, 5, 6]);
```

Q.Return all the prime numbers in an array

Ans. Anonymous function

```
var a = [1,2,3,4,5,6,7];
```

```
var prime = function (arr){
```

```
    let s = [],count=0;
```

```
    for(i=0; i<arr.length; i++)
```

```
    {
```

```
        for(j=1;j<=arr[i];j++)
```

```
        {
```

```
            if(arr[i]%j === 0)
```

```
            {
```

```
                count++;
```

```
            }
```

```
        }
```

```
        if(count === 2)
```

```
            s.push(arr[i])
```

```
            count = 0;
```

```
    }
```

```
    return s;
```

```
}
```

```
console.log(prime(a));
```

```
//iife
```

```
(function (arr){
```

```
    let s = [],count=0;
```

```
    for(i=0; i<arr.length; i++)
```

```
    {
```

```
        for(j=1;j<=arr[i];j++)
```

```
        {
```

```
            if(arr[i]%j === 0)
```

```
            {
```

```
                count++;
```

```
            }
```

```

    }
    if(count === 2)
        console.log(arr[i]);
        count = 0;

}

})([1,2,3,4,5,6,7]);

```

Q.Return all the palindromes in an array

Ans. Anonymous function

```

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(["hello","madam"]);

```

```

//iife
(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);  
  })(["hello","madam"]);
```

Q.Return median of two sorted arrays of same size

Ans. Anonymous function

```
var array1 = [1,2,3];  
var array2 = [4,5,6];  
var array3 = (array1.concat(array2));
```

```
var result = function(array3)  
{  
  var median = array3.length / 2;  
  console.log(median);  
}  
result(array3);
```

```
//iife  
var array1 = [1,2,3];  
var array2 = [4,5,6];  
var array3 = (array1.concat(array2));
```

```
(function(array3)  
{  
  var median = array3.length / 2;  
  console.log(median);  
})(array3);
```

Q.Remove duplicates from a array

Ans. Anonymous function

```
const names = ["Mike","Matt","Nancy","Adam","Jenny","Nancy","Carl"];  
var result = function (names)  
{  
  let unique = [...new Set(names)];  
  console.log(unique);  
}  
result(names);
```

```
//iife  
const names = ["Mike","Matt","Nancy","Adam","Jenny","Nancy","Carl"];
```

```
(function (names)
{
let unique = [...new Set(names)];
console.log(unique);
})(names);
```

Q.Rotate an array by k times and return the rotated array

Ans. Anonymous function

```
var nums = [1,2,3,4,5];
```

```
var k = 2;
```

```
var rotate = function (nums,k)
```

```
{
  let i =0;
  while(i<k)
  {

    nums.unshift(nums.pop());
    i++;
  }
  console.log(nums)
```

```
}
rotate(nums,k);
```

```
//iife
```

```
var nums = [1,2,3,4,5];
```

```
var k = 2;
```

```
(function (nums,k)
```

```
{
  let i =0;
  while(i<k)
  {

    nums.unshift(nums.pop());
    i++;
  }
  console.log(nums)
```

```
})(nums,k);
```