1)Create a function that will return prime number less than ‘n’ where ‘n’ is the number less than 100 and provided as an argument to function.

function isPrime(n)

{

// Corner case

if (n <= 1)

return false;

// Check from 2 to n-1

for (let i = 2; i < n; i++)

if (n % i == 0)

return false;

return true;

}

// Function to print primes

function printPrime(n)

{

for (let i = 2; i <= n; i++) {

if (isPrime(i))

document.write(i +" ");

}

}

let n = 100;

printPrime(n);

node /tmp/zTr5pD3GtY.js

2

3

5

7

11

13

17

19

23

29

31

37

41

43

47

53

59

61

67

71

73

79

83

97

2)Given an array: [3,62,234,7,23,74,23,76,92], use the array filter method and an arrow function to create an array of the numbers greater than `50`.

var numbers = [3,62,234,7,23,74,23,76,92];

var result = numbers.filter(number =>number > 50);

console.log(result);

output:node /tmp/zTr5pD3GtY.js

[ 62, 234, 74, 76, 92 ]

3)Write a function that would allow you to do this.  
var addSix = createBase(6);

addSix(10); // returns 16

addSix(21); // returns 27

Ans: function createBase(baseNumber) {

return function(N) {

return baseNumber + N;

}

}

var addSix = createBase(6);

addSix(10);

addSix(21);

console.log(addSix);

Ans : Output: [Function]

4)Write a function that checks whether a passed string is palindrome or not?

function reverse( str )

{

let rev\_str = "hello";

for( let i = str.length-1 ;i >= 0 ;i--)

{

rev\_str+= str[i];

}

return rev\_str;

}

// function checking string is palindrome or not

function is\_palindrome( str )

{

reverse\_str = reverse(str);

if( reverse\_str === str)

{

console.log("passed string is palindrome ");

}

else

{

console.log("passed string is not palindrome")

}

}

let test = "hellolleh";

is\_palindrome(test);

Output:node /tmp/zTr5pD3GtY.js

passed string is not palindrome

6)var library = [

{

title: ' Vivekadeepini ',

author: ' Adi Shankaracharya',

readingStatus: true

},

{

title: ' “Lessons Life Taught Me Unknowingly”.',

author: 'Anupam Kher',

readingStatus: true

},

{

title: 'Cricket World Cup: The Indian Challenge',

author: 'Ashis Ray',

readingStatus: true

}];

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

{

var book = "'" + library[i].title + "'" + ' by ' + library[i].author + ".";

if (library[i].readingStatus) {

console.log("Already read " + book);

} else

{

console.log("You still need to read " + book);

}

}

Output: Already read ' Vivekadeepini ' by Adi Shankaracharya.

Already read ' "Lessons Life Taught Me Unknowingly".' by Anupam Kher.

Already read 'Cricket World Cup: The Indian Challenge' by Ashis Ray.

7) var myObject = {

foo: "bar",

func: function() {

var self = this;

console.log("outer func: this.foo = " + this.foo);

console.log("outer func: self.foo = " + self.foo);

(function() {

console.log("inner func: this.foo = " + this.foo);

console.log("inner func: self.foo = " + self.foo);

}());

}

};

myObject.func();

Output: node /tmp/vhfvdjaREt.js

outer func: this.foo = bar

outer func: self.foo = bar

inner func: this.foo = undefined

inner func: self.foo = bar

8)function foo1() {

return { bar: "hello" };

}

function foo2() {

return

{ bar: "hello" };

}

console.log(foo1());

console.log(foo2());

Output:node /tmp/vhfvdjaREt.js

{ bar: 'hello' }

Undefined

9)var obj = {}

var arr = ['zebra', 'horse'];

arr.forEach(function(k) {

obj[k] = undefined;

})

console.log(obj);

Output: node /tmp/vhfvdjaREt.js

{ zebra: undefined, horse: undefined }

11)console.log(1 + "2" + "2");

console.log(1 + +"2" + "2");

console.log(1 + -"1" + "2");

console.log(+"1" + "1" + "2");

console.log( "A" - "B" + "2");

console.log( "A" - "B" + 2);

output:node /tmp/vhfvdjaREt.js

122

32

02

112

NaN2

NaN