

# ES6 Exercises

## 1. Scope & Context in JS

(i) What will be the output

```
function Bar(){
  (function self(){
    console.log(this);
  })();
}

function Drinks(){
  (()=> console.log(this))();
}

const barObj = new Bar();   Window Object
const drinksObj = new Drinks();   Function Object
```

(ii) What will be the output

```
let foo = 0;

function bar() {
  if (!foo) {
    let foo = 10;
    console.log(foo);
  }
  console.log(foo);
}

bar();   Outout: 10, 0
```

(iii) What will be the output

```
let guessMe1 = 1;

let guessMe2 = 2;
```

```

{
  try {
    console.log( guessMe1, guessMe2 ); // (A)
  }
  catch (err){
    console.log("Oops", err)      guessMe2 not defined
  }
  let guessMe2 = 3;
  console.log( guessMe1, guessMe2 ); // (B)    1, 3
}
console.log( guessMe1, guessMe2 ); // (C)    1, 2

```

## 2. Arrow Function

(i) What will be the output

```

const myfunc = (list) => arguments[0].sort();
const myList= myfunc([10,20,25]);
console.log(myList);      Error: Arguments not defined in arrow function

```

(ii) What will be the output

```

function foo(n) {
  const f = () => arguments[0] + n;
  return f();
}
const myfoo = foo(1);
console.log( myfoo );    Ans: 2, Coz arg taking parents object prms

```

(iii) What will be the output

```

var obj = {
  i: 10,
  b: () => console.log(this.i, this),

```

```

c: function() {
  console.log(this.i, this);
}
}

obj.b();    10, window object
obj.c();    10, object this

```

(iv) What will be the output

```

const Foo = () => { this.name = "Mike"; };

const obj = new Foo(); Arrow function dont have constructor So error

console.log(obj.name); Error Foo is not a constructor

```

(v) What will be the output

```

const Foo = () => {};

Foo.prototype.name = "name"

console.log(Foo.name); Arrow function dont have prototype, So error

```

(vi) Write code snippet to create arrow function with name profile that takes 2 arguments (name & age) and return object with properties name & age in implicit/implied way (concise body)

```

const name = "Mike";

const age = "20";

//Write function here      const ar = (name, age) => {      return {name, age};}

```

(vii) Write an arrow function which takes array of integers, and returns the sum of the elements of the array. Use JS reduce method in solution.

### 3. Default Arguments

(i) What will be the output

```

function calc(total, tax=.20, tip=.10){

  return total + total*tax + total*tip;

}

const bill = calc(100,null,.2);

console.log(bill);

```

(ii) What will be the output

```
function test(num =1 ){  
  console.log(typeof num);  
}  
test("");
```

(iii) Write a function that executes a callback function after a given delay in milliseconds. The default value of delay is one second.

(iv) Change the below code such that the second argument of printComment has a default value that's initially 1, and is incremented by 1 after each call.

```
function printComment( comment , line ) {  
  console. log( line, comment ) ;  
}
```

(v)

Write a function that executes a callback function after a given delay in milliseconds. The default value of delay is one second.

## 4. CURRYING in Js

(i) What will be the output

```
const curriedMultiply = n => m => n * m;  
const calc = curriedMultiply(3)(4)  
console.log(calc);
```

(ii) Create a function than when executed as follows

```
greetings('Mike')('Wish you Happy Birthday!')('Steve');
```

will print in below format (Should maintain line breaks)

Dear Mike,

Wish you Happy Birthday!

From,

Steve

**Note – Use Template literals and Currying technique**