

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();
const drinksObj = new Drinks();
```

(ii) What will be the output

```
let foo = 0;

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

bar();
```

(iii) What will be the output

```
let guessMe1 = 1;

let guessMe2 = 2;
```

```

{
  try {
    console.log( guessMe1, guessMe2 ); // (A)
  }
  catch (err){
    console.log("Oops", err)
  }
  let guessMe2 = 3;
  console.log( guessMe1, guessMe2 ); // (B)
}
console.log( guessMe1, guessMe2 ); // (C)

```

2. Arrow Function

(i) What will be the output

```

const myfunc = (list) => arguments[0].sort();
const myList= myfunc([10,20,25]);
console.log(myList);

```

(ii) What will be the output

```

function foo(n) {
  const f = () => arguments[0] + n;
  return f();
}
const myfoo = foo(1);
console.log( myfoo );

```

(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();  
obj.c();
```

(iv) What will be the output

```
const Foo = () => { this.name = "Mike";};  
  
const obj = new Foo();  
  
console.log(obj.name);
```

(v) What will be the output

```
const Foo = () => {};  
  
Foo.prototype.name = "name"  
  
console.log(Foo.name);
```

(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
```

(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