1. Adivina la salida de los siguientes códigos:

```
// Code 1:
function func1() {
  setTimeout(()=>{
   console.log(x);
   console.log(y);
  },3000);
  var x = 2;
 let y = 12;
func1();
// Code 2:
function func2(){
 for (var i = 0; i < 3; i++) {</pre>
   setTimeout(()=> console.log(i),2000);
func2();
// Code 3:
(function() {
 setTimeout(()=> console.log(1),2000);
 console.log(2);
 setTimeout(()=> console.log(3),0);
 console.log(4);
})();
```

2. Adivina la salida de los siguientes códigos:

```
// Code 1:
let x= {}, y = {name:"Ronny"}, z = {name:"John"};
x[y] = {name:"Vivek"};
x[z] = {name:"Akki"};
console.log(x[y]);

// Code 2:
function runFunc() {
   console.log("1" + 1);
   console.log("A" - 1);
   console.log(2 + "-2" + "2");
   console.log("Hello" - "World" + 78);
   console.log("Hello" + "78");
}
runFunc();
```

```
// Code 3:
let a = 0;
let b = false;
console.log((a == b));
console.log((a === b));
```

3. Adivina la salida de los siguientes códigos:

```
var x = 23;

(function() {
  var x = 43;
  (function random() {
    x++;
    console.log(x);
    var x = 21;
  })();
})();
```

4. Adivina la salida de los siguientes códigos:

```
// Code 1
let hero = {
  powerLevel: 99,
   getPower(){
    return this.powerLevel;
}
let getPower = hero.getPower;
let hero2 = {powerLevel:42};
console.log(getPower());
console.log(getPower.apply(hero2));
// Code 2
const a = function(){
console.log(this);
const b = {
   func1: function(){
      console.log(this);
    }
}
const c = {
func2: () => {
```

```
console.log(this);
}

b.func1();
 c.func2();
}
a();
// Code 3
const b = {
   name:"Vivek",
   f: function(){
     var self = this;
     console.log(this.name);
     (function(){
       console.log(this.name);
       console.log(self.name);
    })();
  }
 }
b.f();
```

5. Adivina la salida de los siguientes códigos:

```
// Code 1
(function(a){
  return (function() {
   console.log(a);
   a = 23;
 })()
})(45);
// Code 2
// Each time bigFunc is called, an array of size 700 is being created,
// Modify the code so that we don't create the same array again and
again
function bigFunc(element) {
 let newArray = new Array(700).fill('♥');
 return newArray[element];
console.log(bigFunc(599)); // Array is created
console.log(bigFunc(670)); // Array is created again
// Code 3
```

```
// The following code outputs 2 and 2 after waiting for one second
// Modify the code to output 0 and 1 after one second.

function randomFunc() {
  for(var i = 0; i < 2; i++) {
    setTimeout(()=> console.log(i),1000);
  }
}
randomFunc();
```

6. Write a function that performs binary search on a sorted array

BIBLIOGRAPHY

https://www.interviewbit.com/javascript-interview-questions/#output-of-following-code-1