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callbackS[+3()->

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( MY 38th 1960 ) - ... The fel 6chir her - (MAI) we)- ...

#### Javascript - scope & closure

#### תרגילים

מה יהיה הפלט של התרגילים הבאים:

```
1.
    {
       let callbacks = [];
       for (var i = 0; i <= 2; i++) {
           callbacks[i] = function () {
               return i * 2;
                                                      תקני את התרגיל!
                                                   (יש 3 דרכים שונות לכך)
           };
      }
      console.log(callbacks[0]() === 0); false
      console.log(callbacks[1]() === 2); fals
      console.log(callbacks[2]() === 4); 4 \alpha/s_e
    }
 2.
      function test() {
                               undefina
           console.log(a);
           console.log(foo());
           var a = 1;
           function foo() {
               return 2;
          }
      }
      test();
3.
     {
          (function () { - IIFE
               var a = b = 5;
          console.log(b); 5 - 131 let how 1/2 1/4 1/5/32/ b
console.log(c); 6/70/7
              var c = d = 2;
     }
4.
     var a = 1;
     function someFunction(number) {
          function otherFunction(input) {
              return a;
```

```
}
                                              a = 5;
                                              return otherFunction;
                             var firstResult = someFunction(9);
                             console.log(firstResult(2));
       5.
                                                                                           10-5/18
                          var a = 1;
                           function b() { houstby a is (if will) - 30% return; how will have green or the control of the co
                                           function a() {}
                           }
                           b();
                          console.log(a); 4
     6.
                                                                                                                                                                       7915/1
                        var fullname = 'John Doe'; -
                         var obj = {
                                         fullname: 'Colin Ihrig',
                                         prop: {
                                                          fullname: 'Aurelio De Rosa',
                                                         getFullname: function () {
                                                                         return this.fullname;
                                                         }
                                        }
                        };
                       console.log(obj.prop.getFullname()); Αντείο Οτ βούν
                      var test = obj.prop.getFullname; - ()
                      console.log(test()); John Ore
 7.
                    function func2() {
                                      if (true) {
                                                      var a = 5:
                                     console.log(a); 🤫
                     }
8.
                                                                                                 1/31/5
                    var a = 6;
                    function test() {
                                   var a = 7; lest ? 011
                                   function again() {
                                                   var a = 8; again > 011
```

```
1/2 1/7/2 No organ-alert(a); 3
               again();
               alert(a); <sup>3</sup>
           }
           test();
           alert(a); \varphi
     9.
           var b = 1;
          function outer() {
               var b = 2
               function inner() {
                   b++;
                   var b = 5;
                   console.log(b) 5
               inner();
          }
          outer();
```

### <u>תרגילים</u>

```
10. Write a function that would allow you to do this:
    var addSix = createBase(6);
    addSix(10); // returns 16
    addSix(21); // returns 27
```

11. Use a closure to create a private counter

300 Javascrift - scope & dosurt release June 1.1 Do com les from long and all on the form of the form o for (let i= 0) i = 2) i = ) callbackslis = hac (i) y - who may along the his for (lefico-12=8)11+){ callbacks Eis = (function(num) { return function () & return num +2, 9 y) (1); y grand, massant por holdings above var i the masse wer &

let timedit settiment (c) = 2 mily, 100).
(leartingout (lineary) promises I man or - good, police into us e-tallbad non let promises new Promise (function ( 1850 / 18, 18) est ) & - Mar words the stay with the to the by the to be so b

```
שם: עני מולציו _____
קבוצה: על
```

#### 2 'on בוחן <u>avascript – async</u>

```
1. מה הפלט של הקוד הבא?
function job(state) {
  return new Promise(function(resolve, reject) {
     if (state) {
        resolve('success');
     } else {
        reject('error');
     }
  });
}
let promise = job(true);
promise
       .then(function(data) {
          console.log(data);
          return job(false);
       })
       .catch(function(error) {
         console.log(error);
         return 'Error caught';
      })
      .then(function(data) {
         console.log(data);
         return job(true);
      })
      .catch(function(error) {
         console.log(error);
      });
                                                                  הפלט:
```

```
2. מה הפלט של הקוד הבא?
  var promise = new Promise(function(resolve, reject) {
    setTimeout(function() {
      resolve('hello world 1');
      resolve('hello world 2');
      resolve('hello world 3');
      resolve('hello world 4');
   }, 1000);
 });
 promise.then(function success(data) {
   console.log(data);
 });
                                                  helio world 1( (א) )
                                                  hello world 2 (2)
                                                  hello world 3 (a)
                                                  hello world 4 (T)
                           3. מה ה-state של כל promise (לאחר הרצת הקוד)?
 let data = "Do you know js well?";
let firstPromise = new Promise((resolve, reject) => resolve("ok"));
let secondPromise = new Promise((resolve, reject) => {
   if (data.includes("js"))
     resolve("yes");
   reject("no");
});
let thirdPromise = new Promise((resolve, reject) =>
  isNaN(data) ? reject("NaN") : resolve("valid")
);
let fourthPromise = secondPromise.then(x => thirdPromise)
            .then(res => console.log(res)).catch(res => console.log(res));
                              firstPromise: <u>ופכע אינט</u> (א)
                            secondPromise: _____(2)
                              thirdPromise: _____ (a)
                             fourthPromise: _____(T)
```

4. מה ההבדל בין שני קטעי הקוד הבאים ( B - I A):

let promise = new Promise((resolve, reject) => reject("Error"));

promise.catch(x=>console.log(x)); //(A)

promise.then(null,x=>console.log(x)); //(B)

- אין הבדל $((\kappa))$
- לא תקין ו-B לא תקין A (ב)
  - תקין ו-B לא תקין A (ג)
    - **5.** מה הפלט של הקוד הבא?

console.log("4")

new Promise((resolve, reject) => resolve("2")).then(x => console.log(x)); console.log("3")

- 3 2 1 (א)
- 4 3 2 (ב)
- 4 2 3 (a)
  - 4 3 (T)

# ASYNCIS ASYNCIS (asyncis)

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## Promise API

e, tesolde - tesolve sorre promis se. Si.

e peject - reject """

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(then) - Mille MRY 16-15157 Give some asperse

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