Object Exercises

CS133JS Lab 6, Part 1

Create a file named *ObjectExercises.js*. For each of the exercises below, add the code required to complete the exercise.

Creating Objects

book • title

1. Create two global object literals with the properties listed. You can choose your own values.

- copyright (date) author
 - name • birthdate

author

If you have created the objects correctly, the property keys will be listed here: (Don't worry about the formatting of the lists.)

Check

The author object: name, birthdate

The book object: title,author,copyright

Accessing Properties 2. Write two functions with the following names and return values:

No parameters

No parameters

Returns the book title

• Returns the name of the author

• Sets the birthdate property of the *author* object

(From the author object)

• getTitle()

• getAuthor()

Check If you have written the functions correctly, the names of the title and author will be shown here:

The book title: Oliver Twist

3. Write a function described below:

The author name: Charles Dickens

setBirthdate(year)

• One parameter: the year the author was born. No return value

Check

The author's birth year: 1901

If you have written the function correctly, the new birth date will be 1901

(It is in the header of the html file.)

time: 30,

Write the function described below:

• Returns he string from cook.

cook: function() {

Calling a Method

4. For this exercise, the object below has already been created:

const microwave = { power: "Medium",

Check

}

return "Cooking on " + this.power + " for " + this.time + " seconds.";

```
cookOneMinute()

    No parameters

   • The function will do these things to the microwave object:
          • Set the time to 60 seconds

    Call the cook method
```

5. For this exercise, the object below has already been created:

Cooking on medium for 60 seconds.

Adding Properties to an Object

return "Playing track " + this.track + ".";

Write code to add the two properties described below to the *cdPlayer* object. Choose your own values.

If you have written the functions correctly, the cooking message will be shown here:

```
(It is in the header of the html file.)
         const cdPlayer = {
              track: 9,
```

(numeric data type)

}

volume

album

Check

cook: play() {

(Name of the album on the CD)

If you have added the properties correctly, the values will be shown here:

```
The CD player's volume: 10
The name of the album: Peter, Paul and Mary
```

6. Write code to add the method shown below to the *cdPlayer* object skip()

Adding Methods to an Object

- Sets the track to the next track. • No parameters or return value
- If you have added the method correctly, the track number will be 10.
- The CD player's track number: 10

Removing Properties from an Object

7. Write code to remove the *power* property from the *microwave* object.

Check

The CD player's power property: doesn't exist

Looping through Properties on an Object

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8. Write the function described below that will use a loop to return an list of the values (not keys) of the properties in the cdPlayer object listValues()

- No parameters • Returns a string
- Check
- The values of the properties: Medium, 10, function () { return "Playing track " + this.track + "."; }, 10, Peter, Paul and Mary, function () {

this.track++; },